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ABSTRACT

This report presents the Economic Research Service's estimates of the costs of producing wheat, feed grains, cotton, and dairy commodities. It includes costs for other farm products that compete with the required commodities, namely rice, peanuts, soybeans, flax, sunflowers, fed cattle, hogs, sheep, and sugar. The report begins by assessing costs and returns on a per-acre basis under three sections of a budget: cash receipts, cash expenses, and economic costs. The budgets are based on national weighted average estimates of all costs associated with the particular enterprise. Cash receipts are also weighted and show expected sales for the given average yield. This 1985 summary is followed by an explanation of account structure, the procedures and methodology used, how to use the data, and the budgets themselves. The budgets are presented in the form of 121 tables with data for 1983-1985. Nineteen regional production maps are provided. (YLB)

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United States Department of Agriculture

Economic Research Service

ECIFS 5-1

Economic Indicators of the Farm Sector

Costs of Production, 1985

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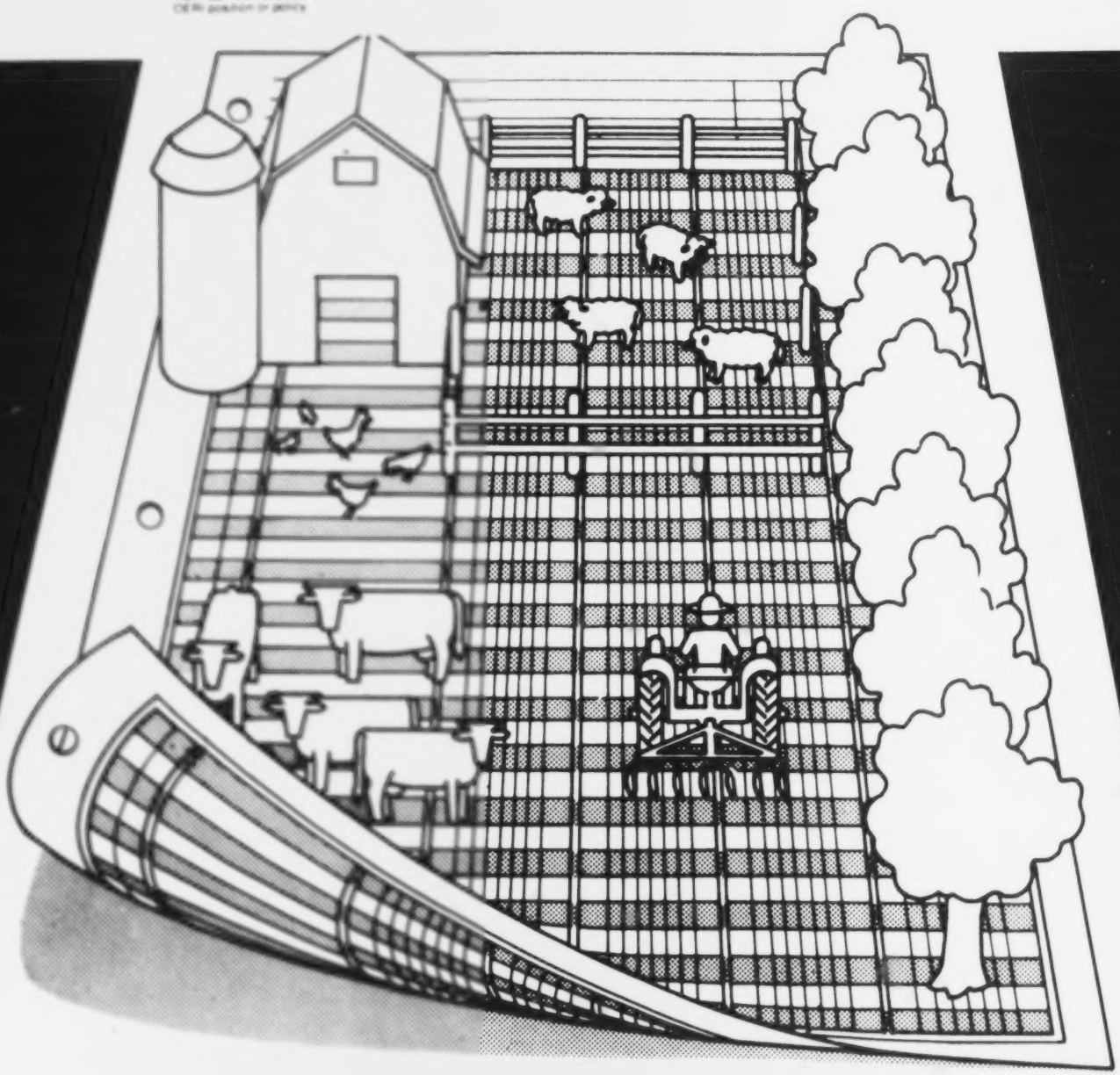

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Abstract

Production costs and the costs of investing in machinery and buildings declined in 1985. Nevertheless, lower market prices reduced earnings to most crop growers and many livestock and milk producers. Estimated cash receipts fell for all crops except rice. The report estimates average annual production costs and returns for major agricultural commodities.

Keywords: Costs of production, costs and returns.

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Preface

In 1983 the Economic Research Service (ERS) revised the format and some estimation procedures to calculate the costs of producing major U.S. agricultural commodities. These procedures and associated format more accurately reflect the financial well-being of today's farm sector.

The major addition to the budget is a cash receipts section. In addition, a cash expenses section appears separately from a total economic costs section. This allows a more complete picture of the selected enterprise's financial situation from both shortrun (cash flows) and longrun (economic costs) perspectives compared with other enterprises and across regions.

This report is one of five in the annual Economic Indicators of the Farm Sector series. Other reports are National Financial Summary, State Financial Summary, Production and Efficiency Statistics, and Farm Sector Review.

This publication was prepared by the staff of the Farm Costs and Returns Section, Economic Indicators Branch, National Economics Division, ERS.

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Highlights

Lower market prices yielded reduced earnings to most crop growers and many livestock and milk producers in 1985. This occurred despite the decline in the costs of producing most crops and livestock and lower costs of capital replacement, which is investment in buildings and machinery.

Some growers, like oats and barley farmers, saw their worst net returns in nearly a decade, while some livestock and milk producers showed modest gains from 1984. Cash receipts per planted acre fell from the year before for corn, wheat, and soybean growers. Declining feed costs helped many hog producers' returns exceed expenses. Sheep ranchers saw strengthened prices for their products, mainly because of falling inventories. Fed beef receipts, however, fell to their lowest level since 1978; farmer-feeder numbers continued to drop as commercial lots and large individual operations (more than 1,000 head) gained an edge through economies of size.

U.S. farmers planted about 3 million fewer acres than in 1984, but total production increased by 6 percent. Feed grain output rose 16 percent and oilseed production increased 11 percent.

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Economic Indicators of the Farm Sector

Costs of Production, 1985

1985 Production Costs and Returns

The costs of producing most crops and livestock declined in 1985. The costs of capital replacement, which is investment in buildings and machinery, also fell for most farmers. Nevertheless, lower market prices yielded reduced earnings to most crop growers and many livestock and milk producers.

Crop acreage fell slightly in 1985 as farmers planted 342 million acres to the major crops, a decline of 3 million acres from 1984. But, higher yields pushed total production up about 6 percent.

Per-acre crop returns fell. Shortrun net cash returns were down for all major crops except rice, soybeans, and sunflowers. Livestock returns were up for the year except for cow-calf and farrow-to-finish hog operations. General inflation, as measured by the consumer price index (CPI), was 3.6 percent; only auto and truck prices rose. Farmers paid less for feed, feeder livestock, fuels, motor

The U.S. Congress requires the U.S. Department of Agriculture's Economic Research Service (ERS) to estimate annual costs of producing wheat, feed grains, cotton, and dairy commodities. ERS also determines costs for other farm products which compete with the required commodities, namely rice, peanuts, soybeans, flax, sunflowers, fed cattle, hogs, sheep, and sugar.

This report first assesses costs and returns on a per-acre basis under three sections of a budget: cash receipts, cash expenses, and economic costs. The budgets are based on national weighted average estimates of all costs associated with the particular enterprise. Cash receipts are also weighted and show expected sales for the given average yield. Government price support payments and participation costs, however, are not included except as discussed later. This is because most support programs are voluntary and contain special provisions for compliance. The 1985 summary is followed by an explanation of account structure, the procedures and methodology used, how to use the data, and the budgets themselves.

supplies, fertilizer, chemicals, tractors, and building and fencing. A breakdown of these price changes for selected input items in 1983-85 is as follows:

Input	1983	1984	1985
		Percent	
Farm origin:			
Feed	9.9	1.3	-14.5
Feeder livestock	-2.7	-3.5	0
Nonfarm origin:			
Wage rates	2.8	1.1	2.4
Interest payments	4.1	.3	-3.6
Taxes	4.3	1.9	.9
Buildings	2.2	-.5	-.9
Autos and trucks	6.7	7.2	5.8
Tractors	6.0	3.8	-1.7
Other machinery	6.9	5.1	2.0
Farm supplies	-.6	-2.8	-.6
Fuels	3.7	-.4	-.1
Farm chemicals	4.8	2.4	-.4
Seed	.1	6.9	1.1
Fertilizer	-4.9	4.4	-6.0

The 1985 prices changed sharply from the year before. For cow-calf operations, feed accounted for 64 percent of total variable costs in 1985; for farrow-to-finish hogs, 79 percent; and for dairy, 63 percent. At these levels of importance, it is obvious that the drop in feed prices caused livestock production costs to fall. Because most of the feed price change was for grains and supplements, the effect was even more pronounced for hogs than for cattle. Hog farmers, of course, do not have the option of putting animals on pasture when grain prices are too high.

The next largest price decline was for fertilizer, an input whose cost has been up and down the past 5 years. Crops benefiting most from this decline include the feed grains and wheat, where fertilizer costs average 25-40 percent of variable expenses. Soybeans, peanuts, and cotton are affected less as fertilizer costs account for only 7-13 percent of their variable expenses.

The early 1980's saw interest rates at their highest levels in recent memory. Many operators who were highly leveraged and/or overcapitalized were forced out of business through foreclosures because of debt service problems. In the past 18 months, interest rates have fallen to 10 percent or less and should remain steady in the immediate future. The index change reflects interest payments rather than just interest rates, but payments are a function of the rate and the amount of the loan. Actual interest expenses fell for all crop and livestock enterprises but rice.

Several other input cost items had price decreases but not by as much as the aforementioned. Automobiles, trucks, and pulled farm implements showed price increases, but the trend over the past few years has been for farmers to keep equipment longer. Total expenses for machinery purchases, therefore, would tend to decrease as farmers buy less equipment.

Corn--Production in 1985 hit a record-high 8.87 billion bushels, up 16 percent. Yield per planted acre for States within the costs-of-production (COP) criteria was 117 bushels, up 10.6 percent and 5.5 percent more than the previous record in 1982.

Total variable costs fell to an average $128, down from $130 in 1984; fixed costs fell a dollar to $77. Fertilizer was the major cash expense item, at $50 per planted acre. The Southwest is the highest cost region because of irrigation requirements. Total cash expenses there were $247, unchanged from 1984. The Southeast has the lowest cash costs at $183, down from $190 in 1984.

A better indicator when comparing commodities is the total economic (or full ownership) cost. This includes all the cash costs (less interest) plus returns to the farmer's own factors of production, like land, unpaid labor, and capital. The U.S. average economic cost for producing corn was $283, a $12 increase from a year earlier. Most of this difference came from the decrease in land returns (rent) which fell by $10 from 1984 but was still $10 higher than in 1983.

Like the United States as a whole, the major production region of the Lake States/Corn Belt posted a record yield of 122 bushels per planted acre. Estimated receipts fell 2.5 percent from 1984, and despite slightly lower variable and fixed costs of $127 and $80, respectively, net cash returns fell 6.7 percent to average $62 per acre. Longrun returns to management and risk improved by 24.3 percent, although they were still negative at minus $20, an improvement mainly traced to reduced land costs.

While the Lake States/Corn Belt region held the strongest cashflow position, the Northeast region was in the strongest longrun position with residual returns to management and risk averaging a minus $15 per acre. For 1983 and 1984, however, the Northeast had positive longrun returns, so 1985 growers were much worse off. Earnings were down for each corn-growing region, producing negative returns to management and risk.

Sorghum--Even with a downward revision in yield from earlier estimates, 1985 grain sorghum production reached a record 1.11 billion bushels. Total estimated 1985/86 supply is a record 1.32 billion bushels. Planted-acre yield averaged a record 63.7 bushels.

At the U.S. average level, all the principal COP financial indicators (estimated receipts, variable and fixed cash expenses, and returns) declined for the third year in a row. Variable costs dropped a dollar to $63 an acre, while fixed costs fell 65 cents to $35.78. Fertilizers, chemicals, fuels, and interest were the major decreases. At the regional level, however, the situation differed. The Central Plains region, the major production area, had price drops, but yields increased to the highest level since 1979, pushing up estimated receipts to $122. Cash expenses fell to $101, but economic costs increased by 60 cents, averaging $159. Net cash returns increased $4 to $22. Returns to management and risk improved slightly to minus $37 per planted acre.

Barley--The 1985 barley crop production estimate showed a 10-million-bushel decline to 589 million, down 2 percent from the record-high production in 1984. Average yield per planted acre was about 45 bushels.

Farm prices were generally 15 to 20 percent below 1984 until November. In December, prices improved but remained below the same period a year earlier. Stocks on January 1, 1986, were 534 million bushels, 22 percent more than the

year before. Carryover for the marketing year will probably increase by 103 million bushels to 350 million.

The reduced average yield, combined with an average harvest-period price of only $1.86, pushed average U.S. receipts down to $87.56 per acre. The Northeast reaped the highest receipts ($168) because yields increased to 58 bushels an acre, producing the only region with positive net cash returns ($56).

Average U.S. cash costs fell by nearly $6, the largest absolute decrease of all the feed grains, totalling $93 per planted acre. Of all the cost components, including economic costs, only technical services costs went up (to 13 cents). Costs fell in all regions except the Southwest but not by enough to compensate for both the lower prices and lower yields.

From a longrun return to management perspective, returns fell sharply. The U.S. average was minus $44.50, the lowest in the past 8 years. Regional returns ranged from a minus $69 in the irrigated Southwest to a minus $17 in the Northwest.

Oats--Production, an estimated 519 million bushels, was 9 percent above the 1984 crop. Average U.S. yield was over 44 bushels per planted acre, while harvested-acre yield hit a record high, implying much of the acreage was not harvested for grain.

Oat receipts and returns fell to their lowest levels in many years. All the oat-growing regions experienced these declines. The Northeast posted the highest estimated receipts as yields increased to 66 bushels per acre. However, all returns in the Northeast were the lowest of the three regions.

Average U.S. variable costs fell from $45 in 1984 to $42 in 1985 with total fixed costs remaining about the same. Most components had decreases, like barley. Total economic costs fell to $121, down $16 from 1984 and $9 from 1983.

The Northern Plains showed the lowest economic costs, at $87. The Northern Plains was also in the strongest financial position compared with 1984 when it was second to the Lake States/Corn Belt. Receipts in the Northern Plains were the lowest of the three regions but so were costs, resulting in net cash returns of minus $4 in 1985 and returns to management and risk of minus $36, a situation similar to all the feed grains.

Wheat--Receipts and returns were down for all wheat. Costs also fell, but not by enough to cover the fall in receipts caused by low wheat prices. Total economic costs fell by 7 percent, but prices were down 13 percent and yield was down 3 percent. Net cash returns, at $11.14, were positive but not enough to cover capital replacement costs or land and labor costs.

Hard red (Plains and Western States) and soft red (eastern half of the United States) winter wheat performance was about the same. Both yield and price (and, therefore, receipts) declined for hard red winter, but cash costs strengthened for soft red winter. Net cash returns to hard winter wheat were $9.43 and soft winter wheat, $10.47.

Hard red winter wheat yields were 34 bushels an acre in the Central Plains and 24 bushels in the Southern Plains. But, prices were lower ($2.62 vs. $2.85), giving receipts of $92 in the Central Plains and $77 in the Southern Plains. Both had positive cash flow (before capital replacement expenses) but negative

returns to management. The Northern Plains and the Southwest had higher interest and irrigation expenses, respectively, turning a negative cash return of minus $16 and minus $17.

Variable costs for soft winter wheat were essentially the same in the three regions ($71-$77), but yields and harvest prices varied. Yields increased and prices were high enough to give positive cash returns of $29 in the Lake States/ Corn Belt and to produce an 8-year high of $107 in the Northeast. With estimated receipts of $236, the Northeast realized a return to management and risk of $26, the only positive longrun return to any class of wheat in any region.

White wheat (mostly winter grown) yields declined 17.9 percent. Estimated receipts fell 22 percent to $151. Cash expenses fell by $3-$4, and net cash returns fell by $39 to $16.68 per acre. Even with falling replacement expenses and land costs, returns to management and risk dropped to an 8-year low of minus $36.

Hard red spring wheat and durum wheat were nearly identical in yields, receipts, and longrun returns to management (minus $22). From a shortrun cash perspective, however, lower interest expenses in the durum-growing areas meant higher cash flows than for hard red spring wheat.

Rice--Rice yields increased in all the regions, giving a U.S. weighted average of more than 54 cwt per planted acre. The highest yields occurred in California with 74 cwt. Prices were difficult to estimate because much of the rice was bought by only a few cooperatives in each State resulting in disclosure problems. Preliminary harvest-period price estimates, however, ranged from $8.49 to $6.39. Total cash expenses fell from $343 in 1984 to $341 in 1985. The major areas of falling costs were seed, fertilizer, chemicals, and fuels. Drying costs, however, increased because of the higher yield. While cash costs declined, economic costs increased by $7, mainly because of an $11 increase in land rental charges.

The non-Delta region of Arkansas and the Delta region of Arkansas, Mississippi, and Louisiana had their best year since 1979. Cash returns in these two regions, usually high enough to cover capital replacement charges, covered all economic costs leaving returns to management and risk of $13.71 in non-Delta Arkansas and of $26.50 in the Delta.

The rice-growing regions of California and along the gulf coast have similar total variable costs as other regions, but fixed costs of overhead, taxes, insurance, and cash interest payments tended to be 2.5 times higher. Cash returns were still positive ($5 in California and $57 along the gulf coast), but longrun returns to management and risk were negative (minus $75 and minus $60, respectively).

Soybeans--Production for 1985 hit an estimated 2.1 billion bushels, 13 percent more than in 1984 and the third largest crop on record. Area planted, at 63.1 million acres, and area harvested, at 61.6 million acres, were both down 7 percent. Average yield set a record high at 33.5 bushels per planted acre, up 6 bushels.

Harvest-period prices fell 19.7 percent to $4.86. But, because of the record yield, estimated per-acre receipts fell by only $4 to $163 per planted acre. Costs for seed, fertilizer, chemicals, and fuels fell by about $1 per acre each. The other variable and fixed costs remained about equal to 1984, leaving a net decline in cash costs of $4 per planted acre. Net cash returns actually improved

slightly, as did returns to management and risk, though the latter were still negative at minus $6.99.

The Northern Plains had the only positive longrun return to management (70 cents an acre) while the Lake States/Corn Belt had the highest costs but also the highest shortrun cash returns of $63.17 (though longrun returns were minus $2.13).

Planted-acre yields improved the most in the Northern Plains with a 50-percent increase, going from 22 bushels to 32. In the Delta, yields decreased but by less than a bushel an acre.

Southeast soybean planters fared less well. The very slight yield increase could not compensate for the 7-percent price decrease. The shortrun cash position, both before and after subtracting capital replacement costs, was positive. But, in the long run, returns to management and risk fell to minus $21.55, remaining negative for the sixth year in a row.

Sunflowers--Farmers harvested 3.15 billion pounds of sunflower seed, down 16 percent. Planted acreage totaled 3.05 million acres, and average U.S. yield increased slightly from 9.95 to 10.26 cwt.

Estimated receipts fell by 5 cents per planted acre while total cash expenses fell by $2.57, causing returns to increase from 1984 but not from 1983. Variable cash expense for seed and fixed cash expense for taxes and insurance increased slightly while other costs (particularly land) declined. Net cash returns totaled $30, but returns to management and risk remained negative at minus $9 per acre.

Peanuts--Production totaled 4.12 billion pounds, 6 percent less than in 1984 but 25 percent above the 1983 crop. Yield per planted acre averaged 2,770 pounds in 1985, 2 percent below 1984's record but still the second highest.

Cash costs fell an average $26. Although the expenses for fossil fuel-based inputs fell slightly, the major change was in seed costs. Seed and chemicals accounted for about 37 percent of total cash costs (variable and fixed), and the cost of these two inputs fell a total of $19 per planted acre. Prices fell an average 12 percent in all regions, cutting returns in each region except the irrigated Southern Plains, where prices fell a penny and receipts rose 1.8 percent to $490 per acre.

The peanut sector, however, remained in a strong financial position. Net cash returns ranged from $202 per acre in the Southern Plains to $290 per acre in the Southeast; the national weighted average was $256. Longrun returns were $59 in the Southern Plains, $124 in the Virginia-North Carolina region, and $181 in the Southeast. The national weighted average was $143.

Flax--Flaxseed production increased 18.1 percent to 8.3 million bushels. Average planted-acre yields reached a high of 13.37 bushels. Prices, however, continued their 3-year decline falling to $5.03 a bushel, which caused receipts to fall from $79.49 to $74.04. Cash expenses fell by only $3. As a result, net cash returns dropped $3 to $18.65, not enough to cover capital costs. Lower land expenses helped somewhat; but in the long run, returns to management and risk remained negative at minus $25.37 per acre.

Cotton--The largest single expense item in cotton production costs is ginning, which is a major fuel user and directly relates to yields. Southern Plains and

Southwest cotton acreages had large yield increases, pushing the U.S. average yield up. This, in turn, pushed up ginning costs, offsetting fuel cost decreases. Fertilizer, chemicals, and fuels also make up a large share of cotton production costs. As a group, these cash expenses fell from 1984 levels and more than offset the increased ginning costs, so total costs fell, but by only $5.

Average U.S. receipts totaled $359 and cash expenses $306, leaving net cash returns of $53 per acre, less than in 1984 but by just $1.20. Subtracting capital replacement costs of $44 still left a positive return, but land and unpaid labor expenses took more than was available, leaving minus $39 to management and risk.

All four regions returned negative amounts to management, ranging from minus $48 in the Southern Plains to minus $22 in the Southeast. In the Southern Plains, returns to management have been negative for the past 6 years.

Sugar Beets--Preliminary estimates indicate that per-acre receipts for the 1985 crop may be up 3 percent. Per-acre returns for 1984 had declined somewhat because a large sugar-beet processor had filed for bankruptcy, and growers had received only partial payment for the crop. The returns to management and risk increased to $100, up $22 per planted acre. Preliminary data showed that while sugar-beet acreage was relatively unchanged between 1984 and 1985, sugar-beet production increased by 2 percent.

Variable costs decreased slightly to $291. Costs for most inputs decreased, although seed, chemicals, and hired labor expenses increased slightly. Hired labor, fertilizer, and chemicals were the largest variable cost components, at 16, 16, and 15 percent of total variable costs, respectively.

Sugarcane--Preliminary data indicate that per-acre receipts decreased from $1,059 to $1,015 because of lower market prices for raw sugar. However, acreage harvested for sugar and sugarcane production increased 3 percent.

Variable costs per harvested acre, at $738, fell 2 percent. Estimated costs for all variable inputs except repairs declined with a 10-percent decrease in fuel and lubrication costs, which was the highest percentage downturn of any major component. Hired labor, which cost 2 percent less, remained the largest single cost component, accounting for 50 percent of variable costs. Bottomline residual returns to management and risk totaled a minus $158.

Fed beef--Receipts, at their lowest level since 1978, pushed down net returns (receipts less cash expenses) to a minus $4.24 per cwt from a minus $1.55 per cwt in 1984. Slaughter cattle prices in the first quarter of 1985 were above $62 per cwt but declined through September to $52 per cwt to average near $60 per cwt for the year. Overall, slaughter cattle prices were $5 per cwt below the 1984 price of $65 per cwt.

Lower grain and concentrate prices reduced feed costs $3 per cwt. Prices paid for feeder cattle and other variable expenses increased by less than a dollar per cwt but a decline in fixed and feed expenses kept total cash expenses about $3 per cwt below 1984 costs.

Farmer cattle feeders (all feedlots with fewer than 1,000-head capacity) had 15.6-percent lower feed bills and 12.7-percent lower fixed costs while feeder cattle and other variable expenses increased 4.6 percent. Even though cash

expenses declined for 1985, receipts fell $7 per cwt, causing farmer feeders to lose $9.55 per cwt of fed beef sold, down from $5.67 per cwt.

Farmer feeders, whose numbers were down about 13 percent from 1984, marketed 5 percent fewer cattle while the total number of fed cattle marketings for all feedlots increased by 1.4 percent. Economies of size have hampered farmer feeders compared with commercial or large farmer feedlots. Farmer feeders typically had lower variable cash expenses, as during 1980-85, but fixed costs rose to over $4 per cwt. Comparatively high fixed costs result from the under-utilization of plant and equipment.

Commercial feedlots' $2.50 lower returns in 1985 still topped 1983 levels by $1.50 per cwt. Cash expenses were down $2.64, but cash receipts declined by more than $5 per cwt, more than offsetting any savings in cash expenses.

Cow-Calf--Beef cow-calf producers lost less money in 1985 than in 1984, because both per-cow losses and the decline in beef cow numbers continued. The total inventory of beef cows on U.S. farms and ranches fell 5 percent during the year. Cash expenses per cow averaged 3.5 percent less in 1985, while receipts from the sale of feeder cattle and cull breeding stock declined less than 2 percent. Budget-calculated cash losses thus averaged about $12.50 per cow compared with $17.75 in 1984.

From a broader perspective, 1985 marked the fourth consecutive year during which cash expenses plus the cost of replacing capital consumed in the production process exceeded cattle sales receipts of the average U.S. cow-calf producer by at least $75 per cow. Producers have responded to these losses by reducing beef cow numbers by almost 15 percent over this 4-year period. By January 1, 1986, the national beef cow inventory was down to an estimated 33.6 million head, the lowest beginning-year inventory since 1966.

Lower costs for feeds (particularly grains and protein supplements) and pasture (because of lower fertilizer prices) accounted for much of the $10-per-cow reduction in cash expenses. Lower average prices received for yearling feeder cattle and cull cows more than offset slightly higher feeder calf prices, however, reducing sales receipts in the average-sized enterprise by more than $4 per cow.

The reduction in yearling prices had an increasingly greater negative impact on sales receipts and cash balances in medium-sized and large enterprises than in small ones, because producers with larger herds tended to sell higher proportions of their feeder cattle as yearlings rather than as calves. Even with an $11-per-cow reduction in sales receipts, however, producers with herds of 500 or more cows had receipts only $7 per cow short of covering cash expenses plus capital replacement costs. Deficits of $50 and $109 per cow existed in herds of 100-499 head and fewer than 100 cows, respectively.

Producers in the North Central region and the West had positive cash balances--receipts compared with cash expenses alone--of about $16.50 and $7.50 per cow. Average-sized herds in the Great Plains and the South yielded negative cash balances of $9 and $55 per cow. Cattle sales receipts failed to cover the combined costs of cash expenses plus capital replacement in each region by amounts ranging from $47 per cow in the West to $131 per cow in the South.

Although the South continued as the region of greatest budgetary losses in cow-calf production, it was the only region in which 1985 sales receipts per cow improved. Higher regional average prices for both feeder calves and yearling

feeder cattle (which are sold earlier in the year in the South than in any other region) raised earnings, which helped reduce net losses by $21 per cow. Net losses (which take into account both cash expenses and capital replacement costs) fell by $19 per cow in the North Central region but increased by $2 and $3 per cow, respectively, in the Great Plains and West where lower yearling prices reduced sales receipts.

Hogs--Despite lower hog prices, hog producers' returns above cash expenses improved because of sharply lower feed costs. However, as in 1983 and 1984, receipts did not cover the capital replacement costs. Farrow-to-finish hog producers, which accounted for 75 percent of all slaughter hogs, increased receipts less cash expenses by $2 per cwt over 1984 and $4 per cwt over 1983.

Hog production fell less than 1 percent from 1984 levels and nearly 4 percent from 1983. However, an increase of 2 percent in total red meat and poultry production, more imports of pork, and continued herd liquidations kept hog prices below 1984 levels. Slaughter hog prices were highest in the first quarter, averaging nearly $47 per cwt, but declined to $43 per cwt during the second quarter. Then, prices leveled out to average just above $44.50 per cwt. Slaughter hog prices fell $4 per cwt, but the substantial decrease in feed costs kept hog producers near the breakeven level for cash budgetary expenses.

Feed costs dropped 19 percent, which, when combined with small increases in other variable and fixed expenses, pushed total cash expenses down by 13.5 percent. Corn prices fell 18 percent and prices paid for protein supplements fell 19 percent. The drop in feed prices reduced feed's percentage of total cash expenses from 67 percent in 1983 and 65 percent in 1984 to 61 percent in 1985.

Feeder pig producers had higher cash receipts than cash expenses for only the second time since 1979. Positive returns of $5.49 per cwt resulted from a 10-percent drop in cash expenses stemming from an 18-percent drop in feed costs. However, receipts, which declined by 90 cents per cwt, still lacked $6.29 per cwt to cover both cash and capital replacement costs. Pig producers have not been able to cover replacement costs since the record prices received in 1982. Prices for feeder pigs averaged above $90 per cwt for the first half of 1985 then fell to $74 in the second half and averaged $82 per cwt, nearly unchanged from prices received in 1984. However, prices for cull sows fell 10 percent, keeping total receipts below 1984 levels.

Feeder pig finishers experienced a small reduction in returns above cash costs, down from a negative $2.81 per cwt in 1984 to a negative $3.33. Even though cash expenses declined by $3.29 per cwt, receipts fell by $3.81 per cwt. Feed costs declined by 18 percent while costs for feeder pigs rose by 8 percent.

Net returns for farrow-to-finish and feeder pig producers in the two major U.S. hog production areas (North Central and Southeast) improved while feeder pig finishers had lower net returns. Regardless of the type of hog production, North Central producers fared better than Southeast producers with net cash returns for farrow-to-finish operations of $4.44 per cwt as against $1.18. Feed inputs were $2 cheaper for North Central hog producers, and total variable costs were $4 less than costs in the Southeast. However, much of the variable cost advantages exhibited by North Central producers were offset by lower fixed and capital replacement expenses. The Southeast producers, on average, had larger operations than North Central producers, an advantage which better utilized fixed resources.

Feeder pig producers in the Southeast earned more than those in the North Central region because feeding expenses and fixed and capital replacement costs were less. A strong demand for feeder pigs in the Southeast pushed pig prices nearly $2 per cwt higher than North Central pig prices.

Mid- to large-sized hog operations exhibited economies of size over smaller operations in the use of resources, capital-intensive technologies, input price discounts, and management. These advantages have shifted hog production from the small, less efficient operations to the larger ones.

The number of operations having one or more hogs on hand during the year dropped about 15 percent from 466,000 farms at the end of 1983 to 393,500 farms by the end of 1985. At the end of 1985, hog farms with an inventory of 500 head or more (6.7 percent of all hog farms), roughly equivalent to annual sales of 1,000 head or more, accounted for 55.5 percent of the total hogs marketed, up 3.6 percent from the 1984 share of production from larger operations. About a third of total production came from such operations in 1978. In 1964, only 7 percent of U.S. hog production came from these larger hog operations.

Farrow-to-finish operations with sales of 3,000-10,000 hogs had larger net returns, ranging from nearly $8 to $19 more per cwt of sales than producers selling 140-300 head per year. The size advantages were even more prevalent when we compared returns to management and risk. Operations selling 10,000 slaughter hogs had returns to management of $21 more per cwt sold than an operation selling 140 slaughter hogs.

Sheep--Stronger lamb and ewe prices pushed total cash receipts for U.S. sheep producers up 12 percent to $66.16 per ewe from $58.24. Higher receipts offset a slight increase in total cash expenses of 73 cents per ewe and pushed cash receipts nearly $24 above cash expenses and $7 above the 1984 level. Most of the feed and other variable expenses declined while general farm overhead and interest expenses increased. This financial upturn can be largely attributed to a continued decline in sheep inventories. Numbers of breeding ewes have fallen 18 percent since 1982, down to a 1985 inventory of 7.2 million ewes.

Milk--Revenue from fluid milk sales continued to account for about 93 percent of the dairy enterprise cash receipts while sales of cull cows, calves, and dairy replacements contributed to the remaining 7 percent. Milk producers' total cash receipts fell 6 percent, 81 cents per cwt of milk, to $13.64 per cwt. The 50-cents-per-cwt drop in the support price for manufacturing-grade milk on April 1, and again on July 1, contributed to the decline in the price received for milk. The value of cull cows, calves, and replacements was $6.20 per cow less in 1985 than in 1984.

However, despite lower cash receipts, the return to management and risk for milk production was up 22 cents per cwt of milk because of a significant drop in costs in 1985. The residual return of $1.10 per cwt of milk was 9 percent less than it was in 1983. The residual return per cow averaged $168.58, up about $41.80 for a 100-cow herd. Feed expenses slipped 31 cents per cwt because the value of concentrates fed to milk cows declined in all the dairy States and the costs of forage production dropped. The 50-cent dairy assessment, in effect for all of 1984, ended April 1, 1985, which resulted in a net drop of 37 cents per cwt in that expense. These, together with lower energy costs, contributed to the 90-cents-per-cwt drop in cash expenses. The charge for capital replacement fell 6 percent from $1.56 per cwt to $1.46 while the charge for capital invested in owned inputs declined 12 cents per cwt, because of declining land and farm asset

values. The net returns to owned inputs rose 10 cents per cwt to $3.98 per cwt but remained 5 percent below the 1983 level.

All the regions showed a decline in total costs, ranging from a 91-cents-per-cwt drop in the Northeast to $1.56 per cwt in the Appalachian and Southern Plains regions. The Appalachian region, which had the largest decrease in the cost of dairy concentrates, showed the largest drop, at 42 cents in concentrate feed cost per cwt of milk. The costs for raising forages fell $3-$6 per ton in the Appalachian States and $13 per ton in the Southern Plains because of lower input costs and higher yields. The Southern Plains, where the market price for hay averaged $26 per ton below the 1984 level, purchases a large portion of the hay. These factors resulted in declines of 26 cents and 76 cents per cwt of milk for forage expense in the Appalachian and Southern Plains regions. The Pacific cost of concentrate rations showed the second largest decrease in concentrate feed costs, 39 cents per cwt, because of lower rates of feeding and increased output per cow.

Total cash expenses varied across regions by a smaller margin than in 1984, ranging from $9.42 per cwt of milk in the Upper Midwest to $10.88 in the Southern Plains. The Upper Midwest had the lowest variable cash expenses, $6.41 per cwt. The Southern Plains had the highest variable costs, $9 per cwt, followed by the Appalachian region. The variable costs were higher in the Southern Plains and Appalachian regions because farmers used more grain there than they produced, forcing higher prices to cover transportation costs from the major feed producing areas. The 1985 concentrate expense for the Southern Plains was $1.35 per cwt more than the Upper Midwest and 63 cents per cwt more than the Corn Belt.

The Pacific region paid the least in fixed cost per cwt of milk, as in 1984, for three reasons: investment in buildings was lower in this mild climate, facilities were used more extensively, and producers spread fixed costs over a larger base of milk production. The Southern Plains had the next lowest fixed costs, $1.88 per cwt, for similar reasons. The Upper Midwest incurred the highest fixed costs, $3.01 per cwt of milk.

The Southern Plains and Appalachian regions improved the most in returns to management and risk, $1.04 and $1.03 per cwt, because the 11-percent declines in costs were accompanied by only moderate decreases (3 and 4 percent) in cash receipts. The other regions showed sharper declines in cash receipts, 63 cents per cwt of milk in the Pacific to 93 cents per cwt in the Upper Midwest. Although the Appalachian region had the smallest drop in milk price, the value of cull cows, calves, and replacements in the Southern Plains remained the same, so the Southern Plains had the smallest decline in total cash receipts of 52 cents per cwt. The Pacific region, showing a 40-cents-per-cwt improvement in returns to management and risk and despite receiving the lowest price for its milk, held the highest return to management and risk of $2.67 per cwt, 32 cents per cwt above the Southern Plains. The Appalachian region had the second lowest return, at $1.23, while the Corn Belt earned a 23-cents-per-cwt increase, but still had a negative return.

As in 1984, the Upper Midwest had the highest net return to owned inputs; however, at $4.27 per cwt, it was 14 cents (3 percent) less than in 1984. The Southern Plains realized the second highest net return, $3.97 per cwt of milk. The Corn Belt earned the lowest net return to owned inputs, $3.38 per cwt of milk, which was 3 percent higher than 1984.

Structure of the Accounts

Each enterprise budget contains cost and return measures separated into three major categories: cash receipts, cash expenses, and economic costs. ERS and the National Agricultural Statistics Service (NASS, formerly the Statistical Reporting Service) collect much of the technical data used to estimate the costs through enumerated surveys of farm operators. Quantities of variable inputs, multiplied by their respective prices, determine the costs shown in the enterprise budgets.

Cash Receipts and Cash Expenses

ERS includes cash receipts so that an analyst may estimate the residual returns to management and owned resources used in the production process. These residual returns fluctuate because of changes in the harvest-month price (for crops) and the average market price (for livestock). Receipt information provides data to assess the economic performance of a commodity in a particular year or over time by permitting the calculation of net returns.

Cash expenses are the out-of-pocket costs incurred during the production process. The cashflow position of producers is determined by subtracting cash expenses from the value of production (cash receipts).

ERS tabulates cash returns (receipts less expenses) both before and after a charge for the replacement of capital invested in buildings and machinery. In any given year, an operator may defer machinery and equipment purchases depending on the income or tax position of the farm. However, over the long run, operators must set aside funds to replace wornout equipment. The residual cash returns reflect funds available for family living, debt retirement, or other discretionary uses and should provide for economic depreciation of machinery and equipment.

Economic (Full Ownership) Costs

Total economic costs and returns can be used to compare various commodities without regard for equity levels or tenure of producers. For example, the cash expenses of two farm operators producing corn may be completely different because of differing levels of debt, even when identical practices and technology on similar land are used.

Economic costs partly consist of variable expenses (less actual interest charges) plus general farm overhead, taxes and insurance, and the charge for capital replacement. If this amount is subtracted from cash receipts, the residual return to owned inputs can then be allocated to cover the costs of land, machinery, unpaid labor, and capital invested in operating inputs during the production process. The cost allocation to land, machinery, and unpaid labor is based only on the imputed value of each item in the production process.

Individual operators have many methods of allocating residual returns to cover the costs of owned or fixed resources. Some operators assign a proportionately large return to cover landownership costs and then leave a small return to unpaid labor. Others may do the opposite. In the COP budgets, the methodological procedure for allocating residual revenues to each asset uses the annual rate of return the producer could expect capital to earn in the current year without taking inflation or deflation into account. The returns to management and risk are the residual amount after making these deductions. The returns to management and risk can be evaluated only in light of the given allocation of residual

returns and are directly comparable only when the same procedure is used for those commodities.

In the long run, the return to risk is expected to average near zero, although in any particular year the residual return to risk could be positive or negative depending on weather and supply and demand factors. The return to management should be positive, but the level remains unknown and is speculative. Therefore, the residual returns to both management and risk are expected to average above zero over time.

The earnings value of an owner-supplied input during the production process is often difficult, if not impossible, to determine. For example, one cannot easily assess the additional revenue earned when a producer invests more money in operating inputs rather than incurring additional short-term debt. As a consequence, the accounts in this report are calculated by assuming that the rational producer expects money invested in variable production inputs to earn at least as much as if it were rented or placed in a savings account or similar financial instrument. Thus, the latter, relatively risk-free rate of return, which is the opportunity cost of these funds, is used to estimate the imputed annual return to invested operating capital. Because of the large number of financial instruments available to producers, ERS used the average 6-month U.S. Treasury bill rate.

ERS used a similar procedure to value the time the operator and other unpaid individuals work on the farm. At a minimum, their unpaid labor is worth the equivalent of the hired wage rate. Any additional return reflecting the operator's entrepreneurial skill appears in the residual return to management and risk.

The annual expected return the average producer might receive from capital invested in machinery and other nonland production assets used in the production process is estimated directly from data published in Economic Indicators of the Farm Sector: National Financial Summary. A single real rate of return estimates the annual earnings of owner-supplied or owned assets for all commodities in all regions. Data are not available to estimate rates specific to various commodities and regions. Calculation of a return to land for crops uses rental value as a proxy for land returns rather than using the real rate of return to production assets. For livestock, land is estimated by using the real rate of return and the current land price.

Procedure

ERS prepares and presents COP data in the form of an enterprise budget, which is a summary of all operator and landlord costs and returns associated with the production of an individual commodity. ERS prepares enterprise budgets on a per-unit basis, such as one acre or one animal. Regional enterprise budgets represent average production input use and technology. A State enterprise budget covers each commodity in each major producing region. ERS weights these data according to production and aggregates them to determine the regional and national average costs of production.

For surveys taken through spring 1984, NASS drew a random sample from all producers who had responded to acreage and production surveys. NASS sampled farms from the list of respondents with a probability proportionate to size so that each unit of production (an acre or animal) in the region had an equal chance of being included in the survey. Thus the survey data tend to represent acreages of

surveyed crops on the larger commercial farms because of their larger number of acres. For example, a 1,000-acre farm with 400 acres of a crop has twice the probability of being sampled than a 300-acre farm with 200 acres of the same crop.

Rather than solicit per-acre or per-unit costs directly from farmers, ERS uses more generalized methods because individual farmers often employ different accounting procedures. Surveys determine the quantity of each input and describe field operations, the size and type of equipment, fertilization rates, seeding rates, custom operations, and labor use. This information complements other price and quantity data available from other surveys conducted by ERS and NASS. These additional data include crop acreages, crop yields, prices received for agricultural commodities, prices paid for agricultural inputs, fertilizer use on some commodities, and observations of sample field plots for yields. NASS also collects data on land values and rental rates.

Engineering relationships and a computerized budget generator determine estimates of fuel use, repairs, total labor for crop production, and machinery replacement costs. The economic engineering equations, developed by the American Society of Agricultural Engineers (ASAE), calculate machinery fuel and repair costs as well as a replacement allowance, interest, taxes, and insurance based on the original price of the machine and annual hours of use. Formulas also estimate the required amount of labor needed to perform machinery operations. COP surveys provide the amount of hand labor and labor required for livestock production. ERS estimated the costs in this report by using the following surveys:

Commodity	Production year 1/	Commodity	Production year 1/
Corn	1982 & 1983	Flax	1983
Sorghum	1982 & 1983	Cotton	1982
Barley	1982 & 1983	Sugar beets	1980 & 1984
Oats	1983	Sugarcane	1980 & 1984
Wheat	1982 & 1983	Fed beef	1980
Rice	1979	Cow-calf	1980
Soybeans	1982 & 1983	Hogs	1980
Sunflowers	1983	Sheep	1980
Peanuts	1982	Dairy	1980

Methods and Use of Data for Estimating Costs and Returns

This section outlines the procedures for estimating the various components of receipts, cash expenses, and economic costs, and demonstrates how the primary survey data and other secondary data become COP estimates.

Cash Receipts

Cash receipts consist of all current returns generated from producing the specific unit of commodity. Prices for crops reflect harvest-month prices;

1/The 1982 survey was conducted in the Southern States and the Pacific Northwest. The 1983 survey was conducted in the Northern States. For sugar, partial results from the 1984 survey have been incorporated in the 1984 and 1985 estimates.

livestock prices reflect season-average market prices. Gains (losses) accruing from asset appreciation (depreciation) are not included. Cash receipts are a function of both yield and price. Weather is primarily responsible for yield fluctuations, and supply and demand factors are primarily responsible for the yearly price fluctuations. Because costs per acre have continuously increased over recent decades, the volatility of cash receipts is the primary cause of fluctuations in the amount of available cash and returns to management and risk. As a result, yields and prices can be compared in any particular year to determine if either one is only temporarily depressed or larger than normal and if longer run return problems are emerging.

ERS includes revenues generated from the sale of both primary and secondary products and additional revenues (only when a secondary product exists). Secondary products typically include cottonseed, molasses, the value of residue following crop production, or the sale of culled livestock. The total costs shown include the production of all primary and secondary products, because in most cases costs for both primary and secondary products cannot be estimated separately. Consequently, we see total revenues from all products and their associated total costs.

Crop cash receipts may be based on either the seasonal average price received by farmers over the marketing period or the harvest-period price. To be completely consistent, the analyst using seasonal average price must include storage and marketing costs in the budget. The prices used for crops in this publication are the harvest months' average prices received by farmers, because data on the marketing patterns and methods of storing and selling crop production are not currently available. The budgets exclude any additional revenues the farmer may have earned by storing the crop for later sales as well as the associated costs of storage. Future surveys will determine storage costs so that more readily available season average prices may be used.

Estimates of total returns omit direct Government price support payments, except for wool. In the peanut, sugar, milk, and wool programs, the Government supports the product price through direct market intervention. As a result, the value of production reflects the combined market price and masks Government payments. In contrast, most crop price support programs are voluntary and contain special provisions for compliance. Both program payments and the costs of compliance need to be excluded when policymakers use cost and return information to determine if support prices will encourage or maintain production at adequate levels.

Cash Expenses

Cash expenses consist of both variable expenditures (those incurred only if production takes place in a given year) and fixed expenditures. Fixed expenditures include items such as taxes, insurance, overhead, interest, rent, and leases for which the operator or landlord would be responsible whether or not the decision is made to produce a specific commodity.

Variable cash expenses include seed, fertilizer, lime and chemicals, custom operations, hired labor, fuel and lubrication, repairs, drying, ginning, purchased irrigation water, feed, vet services, animal hauling, and hired management fees.

Data on seed quantities used per acre come from both Agricultural Statistics and COP surveys.2/ Seed prices include both purchased hybrid varieties and home-

2/All publications cited in this section are published by the U.S. Department of Agriculture.

produced seed. A crop such as corn that uses mostly hybrid seed means purchased seed prices are taken directly from State seed price estimates in Agricultural Prices. Estimated composite seed prices are used for home-produced seed. The composite prices follow previous season average prices plus an allowance for cleaning and treating. Data on the share of seed purchased and produced at home come from either Field Crops or COP survey data. The April Agricultural Prices report provides data on market prices for seed for spring-seeded crops; seed prices for fall-seeded crops come from the September report. Fertilizer quantities for corn, cotton, soybeans, and wheat come from the Fertilizer Situation report, which provides estimates of the quantity of fertilizer used, by nutrient (nitrogen, phosphate, and potash), in major producing States. For other crops, COP surveys determine data on fertilizer, lime, and gypsum use. Prices for all fertilizer materials come from the March Agricultural Prices.

COP surveys provide pesticide cost data, although individually identified pesticides are not listed because of the large number of chemical compounds and trade names. In nonsurvey years, adjusted pesticide costs follow the index of prices paid for farm chemicals provided in Agricultural Prices, a procedure that excludes variation in quantities and location of use. Variables affecting pesticide use and costs, such as new chemicals, insect infestations, disease outbreaks, unusual weed problems, or rotation changes cannot be measured in nonsurvey years. However, because COP surveys must yield reliable estimates at regional and national levels, we assume that localized pesticide use changes will not substantially affect aggregate figures.

Custom operators and farmers alike apply pesticides. In many cases, they combine pesticide application with another farm machinery operation. Some dealers sell pesticides and then rent applicators to farmers. Many custom operators charge a flat rate and do not provide a cost breakdown between application and materials applied. Custom service cost estimates come from the COP surveys supplemented by State information whenever available. ERS updates these rates annually using a farm services and rent index published by NASS and custom rate reports from individual States.

Machinery labor requirements for each budget relate directly to machinery time requirements. Labor is assumed to equal 110 percent of tractor use time (in the case of pulled implements) and 120 percent of self-propelled implement use time. Labor associated with tractors and implements is 121 percent of the implement use time. Total hours of labor equal the sum of all machine, irrigation, and livestock labor. Additional labor may be added to the budgets where applicable for irrigation or other hand operations as determined by COP survey data. ERS collected 1984 data on hired labor for crops. The percentage of labor hours paid and unpaid was estimated by crop and applied to the total labor expense.

These cash expenses are relatively easy to determine, but the procedure for calculating the cost of owning and operating machinery and equipment is more complex because every farm has a different age and size distribution and different numbers of machinery and equipment items. Most farms produce more than one commodity, and an allocation of machinery costs among commodities must assess the relative use of machinery for each commodity.

The COP estimates rely on the COP survey data to determine machine use, including size, type, and number of passes over the field. This survey information helps create a machinery complement for a State or region which contains up to 100 machines and leads to the average number and size of machines necessary to produce a specific crop. ERS specifies the type of fuel used, age when purchased,

length of life, total hours of annual use, and the list and purchase prices. Agricultural engineering formulas use this information to estimate fuel, repairs, machinery operation, labor, and ownership costs.

ERS computes machinery costs on a per-hour basis, and budget costs reflect hours of use of each machine, which in turn depend on the size of machine and the number of times the machine passes over the acre. Engineering performance equations determine the hours of machine time. The theoretically estimated machinery time must be adjusted for lost time in turning corners, refueling the machine, and other interruptions. Per-acre time requirements for each machine are then multiplied by the number of times the machine moves over the the field to determine total hours of use.

Fuel costs for tractors are related to power takeoff (PTO), horsepower size, and fuel consumption at a 55- to 60-percent load rate. For other machines, ERS gauges fuel consumption at the hourly rate specified for each machine. The total amount of fuel used for the production of the commodity is the sum of all the fuel used for each machine based on the required hours of use. Prices for fuels in each State, adjusted for refundable Federal and State excise taxes, come from the July issue of Agricultural Prices.

ERS updates list prices of machines annually. The June annual summary of Agricultural Prices shows average prices paid for some farm machinery in each State. Prices of specialized machines and prices of optional equipment, not included in the NASS machinery price survey, are supplemented by current price lists obtained from all major farm machinery manufacturers. Hours of use and ASAE-provided engineering equations determine tractor and machinery repairs.

Motor vehicle (trucks and pickups) costs are included in the machinery costs for fuel, lubrication, and repairs. Farm operators in the COP surveys provide vehicle sizes, annual mileage, and estimated hours of use to determine average hours of use per cropland acre. ERS estimates vehicle costs on an hourly basis and multiplies them by the estimated hours of use per acre.

For a few crops, estimates of drying expenses mirror the percentage of the crop dried and the initial moisture content. Estimates of the percentages of crops dried in the Corn Belt, for example, come from special reports published by States. Great Plains estimates require consulting with university and Extension Service staff and analyzing results of special drying and storage studies. Annual updates reflect changes in fuel prices, yields, and initial moisture content. Cotton ginning and wrapping costs are based on annual ERS studies of ginning practices and costs in major producing States.

COP survey data partially determine irrigation costs. In ground-water (well) regions, procedures for estimating costs are similar to those used for machinery. Analysts obtain data on average well depth, pumping rates, and distribution system type. Irrigation equipment, power units, and the distribution system, including the well, appear as part of a special irrigation complement. ERS also gathers power unit, distribution system, and well-drilling prices from State Extension Service budgets, State irrigation data, equipment dealers, and private companies. Machinery cost estimates include irrigation fuel, repair, and labor costs. Costs of purchased irrigation water appear as a separate item.

General farm overhead includes electricity for general farm use, telephone, office supplies, fees and dues, water drainage, liability insurance, fence repairs, and general business expenses. ERS collects costs for these items from

the Farm Costs and Returns Survey (FCRS) and allocates the costs among the respective commodities on the basis of total farm receipts.

Livestock cash expenditures include labor, feed (purchased and homegrown), hauling, breeding, veterinary fees and medicines, fuel and lubrication, machinery repairs, general farm overhead, and miscellaneous items.

Farmers use grains and forages raised on the farm as the primary source of feed in most livestock-producing areas. COP surveys provide data on the amounts of farm-grown and purchased feed. ERS prices farm-grown forages at their costs of production and values purchased forages at a market price. Purchased feed usually encompasses commercial feed mixes, supplements, and other minor feed items but sometimes also includes forages in many regions. ERS updates prices for each type of farm-grown feed using regionally weighted annual indexes. Commodity-weighted indexes and NASS price data determine the price of purchased grains fed. Grain for feed reflects market price rather than production cost. Updated commercial (mixed) feeds use the prices from 14-percent protein feed. NASS collects data on prices of baled hay to update the purchased forage prices.

COP surveys provide data on livestock hauling and regional livestock transportation costs and updates them by using a weighted average of the farm and motor supplies index (70 percent) and the fuels and energy index (30 percent) as reported in Agricultural Prices.

COP surveys also collect veterinary and medical expense data. The updating procedure reflects a weighted average of the nonagricultural hourly wage rate index (70 percent) and the agricultural chemicals index (30 percent).

COP surveys collect breeding fees and miscellaneous expenses data. ERS updates these items annually, using the "all production items" index in Agricultural Prices. Fuel and electricity consumption rates per hour for operating special dairy equipment came from an unpublished study of energy use on dairy farms.

COP surveys measure livestock enterprise labor data. Hired labor is a cash expense. Hired labor used to produce farm-grown feed appears in the feed costs. The economic cost section carries total unpaid labor for the enterprise and for any farm-grown feed.

Fixed cash expenses consist of taxes, insurance, interest, rent, and lease costs. Taxes include personal property taxes on machinery and real estate taxes. Basing insurance and personal property tax estimates on current machinery and livestock prices can change this component of total cost. Therefore tax and insurance costs for machinery are first computed on the basis of current machinery prices and then lagged 4 years, which assumes that major high-cost items in the machinery complements, such as tractors, are owned by the average commercial producer for about 8 years.

The annual FCRS provides data on cash interest expenses. ERS calculates cash interest expenses for the farm separately and reports them as a total for all nonland and real estate categories. Real estate interest consists of payments on loans secured by real estate. Interest on all other loans falls under the nonland category. ERS bases the enterprise interest expense on its contribution to total farm receipts.

ERS estimates the costs of machinery, equipment, and breeding livestock at current prices. Thus the capital replacement item represents a charge sufficient to

maintain a machinery or livestock investment and production capacity through time.

The budgets include replacement costs associated with breeding stock. The value of purchased breeding animals depreciates to salvage value. The number of years over which the animal's value depreciates varies by region and species. Animals used for replacement but raised on the farm do not depreciate because the cost of raising these replacements is included in the budget. Depreciating raised replacements would be double-counting.

Economic (Full Ownership) Costs

Estimated economic, or full ownership, costs allow comparison of commodity returns across varying levels of equity and tenure. Variable expenses in the economic cost section are the same as those shown in the cash expenses section as are general farm overhead and taxes and insurance. The capital replacement allowance is identical to that listed in the cash expenses section. The remaining return to owned inputs, after subtracting the above items, must then be allocated to operating capital, (unpaid) labor, other nonland capital, land, and management and risk because they cannot be determined during the production period through market transactions and therefore must be imputed.

ERS does not value production assets, such as machinery, equipment, breeding livestock, and labor, at their acquisition costs. An average operator could expect these inputs to receive an annual return equal to their opportunity costs in alternate uses, exclusive of asset valuation changes because of inflation or deflation. For any nonland asset used in the production process, the rate of return must be calculated from (residual) earnings from the current production process. Earnings from price appreciation (capital gains) or price depreciation are not included here or in the value of production or receipts section. The rate of return for a given year is calculated taking the average of the previous 20-year total return to production assets in the agricultural sector, subtracting the value of the operator's labor used each year, and dividing by the respective value of production assets. All three series appear in Economic Indicators of the Farm Sector: National Financial Summary. The 20-year average calculated rates for 1978-85 are:

Year	Percentage	Year	Percentage
1978	4.33	1982	4.42
1979	4.33	1983	4.35
1980	4.43	1984	4.30
1981	4.42	1985	4.34

ERS charges the opportunity cost of operating capital on all variable inputs from the month of use to the harvest month. For example, seed corn is purchased and planted in April-May, and the crop is harvested 6 months later in October-November. The charge for annual capital needed for operating inputs uses the 6-month U.S. Treasury bill rate.

The expected rate of return generated by agricultural production assets determines the allocated return (cost) of capital invested in the remaining nonland factors of production. To calculate the annual earnings a producer can expect from machinery, equipment, and breeding livestock, multiply the total value of

these assets by the rate of return to all production assets, for example, 4.33 percent in 1984.

The return to land for livestock enterprises was calculated in the same manner as the nonland factors, multiplying the average current land value by the 20-year rate of return. For crops, however, ERS calculates a composite cash/share rental value by taking the per-acre cash rental rate and the per-acre share rental rate from survey data and weighting each by its respective share of total acreage rented. Because real estate taxes already appear in the survey rental rate data, taxes are subtracted from the rental value in the budget to prevent double-counting and to give a net rental value.

Livestock budgets ascertain land charges for feed production by using either market prices for feeds or costs of production, whichever is applicable. For dairy, land occupied by the barnyard and farm buildings and the cost of land associated with forage production receives a cost in the allocated returns section.

The wage rates for labor estimates, based on data published in Farm Labor, are the sum of the State's annual average hourly rate for "all hired farm workers," plus the employer's share of social security taxes.

Using Cost-of-Production Data

Although costs and returns appear here on a per-acre, per-cwt, or per-head basis, crop per-bushel costs of production are also quite important for farm management or planning and for agricultural policy and program decisionmaking. These budgets include both operator and landlord costs. However, per-unit costs (dollars per bushel or per pound for peanuts and cotton) based on these budgets can be used for many other purposes, so correct selection of the proper per-unit cost depends entirely on the user's objective(s).

ERS calculates four alternate total per-unit cost figures based on cash expenses and economic costs for 1983 to 1985, and an average 1983-85 cost by using actual yields per acre. Of course, users should view each of these figures as a guide. Additional per-unit costs can be computed by adding or substituting the relevant costs, as determined by the user, within each section and then dividing by actual yields provided here or trend yields determined elsewhere. Either total cash expense or economic cost items (some cash expenses plus imputed opportunity costs of providing production assets, such as land, machinery, labor) must be summed independently, because some items are necessarily duplicated in each section.

Cash expense per unit reflects the shortrun out-of-pocket variable and fixed costs incurred, and minimum breakeven price needed, on an average acre of cropland to raise and harvest a crop with a given yield. For example, corn cash expense per unit ranged from $1.75 to $2.54 during 1983-85, with an average per-bushel cash expense of $2.09.

Cash expense with replacement reflects the addition of capital replacement expenses and the amount of dollars needed to replace the machinery and equipment used up during the production process, besides all cash expenses. To maintain the physical production plant over time, the timely replacement of the capital stock is necessary to produce the crop. The addition of per-unit capital replacement expenses to per-unit cash expenses leads to an average increase for corn of 34 cents per bushel to $2.43.

Economic costs excluding land reflect all cash expenses (less cash interest), capital replacement, and allocated returns to unpaid labor, operating capital, and nonland capital. ERS must impute the allocated returns for some items because they cannot be measured directly. These per-unit costs indicate the average longer run costs which must be covered in some manner to keep an acre of land in production before payment of land rent, whether to the owner-operator or to the landholder. The economic costs excluding land ranged from $1.92 to $2.76 and the average was 19 cents higher at $2.28 than cash expense costs per bushel of corn from 1983 to 1985.

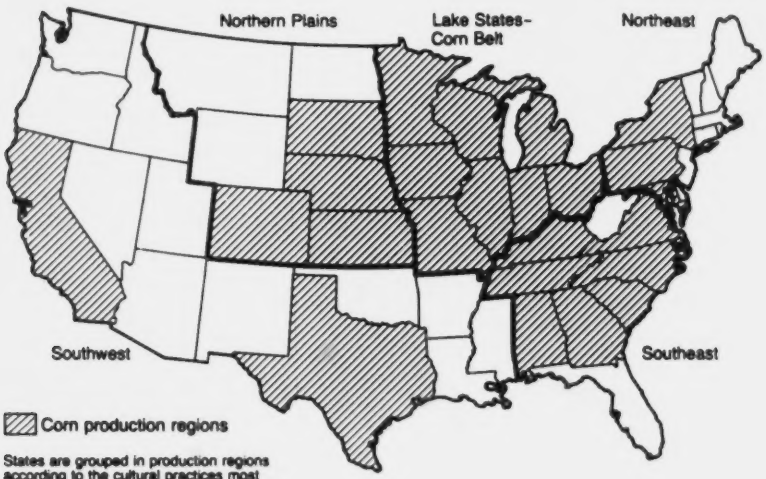
Economic costs including land reflect total economic costs, including an estimated rent to the landowner and shows the breakeven longrun average price necessary to continue producing a crop. In this case, all longrun costs appear in the budget. For example, the economic cost including land for producing corn ranged from $2.42 to $3.37 and averaged $2.86, 75 cents above the out-of-pocket expense per bushel.

Following are the selected per-unit costs for major U.S. crops:

Item	1983	1984	1985	Average, 1983-85
	Dollars per bushel			
Corn:				
Cash expense	2.54	1.96	1.75	2.09
Cash expense with replacement	2.97	2.28	2.04	2.43
Economic cost excluding land	2.76	2.15	1.92	2.28
Economic cost including land	3.37	2.78	2.42	2.86
Grain sorghum:				
Cash expense	2.21	1.91	1.56	1.89
Cash expense with replacement	2.79	2.41	1.97	2.39
Economic cost excluding land	2.84	2.48	2.06	2.46
Economic cost including land	3.51	3.03	2.49	3.01
Barley:				
Cash expense	1.99	1.96	2.05	2.00
Cash expense with replacement	2.49	2.45	2.56	2.50
Economic cost excluding land	2.41	2.35	2.45	2.40
Economic cost including land	3.05	2.96	2.92	2.98
Oats:				
Cash expense	1.52	1.55	1.70	1.59
Cash expense with replacement	1.99	2.00	2.18	2.06
Economic cost excluding land	2.17	2.18	2.35	2.23
Economic cost including land	2.66	2.70	2.73	2.70
Wheat:				
Cash expense	2.49	2.72	2.72	2.64
Cash expense with replacement	3.06	3.34	3.33	3.24
Economic cost excluding land	3.00	3.22	3.21	3.14
Economic cost including land	3.93	4.10	3.93	3.99
Soybeans:				
Cash expense	4.39	4.16	3.30	3.95
Cash expense with replacement	5.34	5.04	4.01	4.80
Economic cost excluding land	4.86	4.55	3.61	4.34
Economic cost including land	7.33	6.47	5.07	6.29
	Dollars per pound			
Peanuts:				
Cash expense	0.179	0.145	0.138	0.154
Cash expense with replacement	.200	.162	.156	.173
Economic cost excluding land	.181	.155	.148	.161
Economic cost including land	.217	.187	.179	.194
Cotton:				
Cash expense	.638	.560	.518	.572
Cash expense with replacement	.733	.642	.593	.656
Economic cost excluding land	.707	.620	.577	.635
Economic cost including land	.841	.729	.675	.748

Figure 1

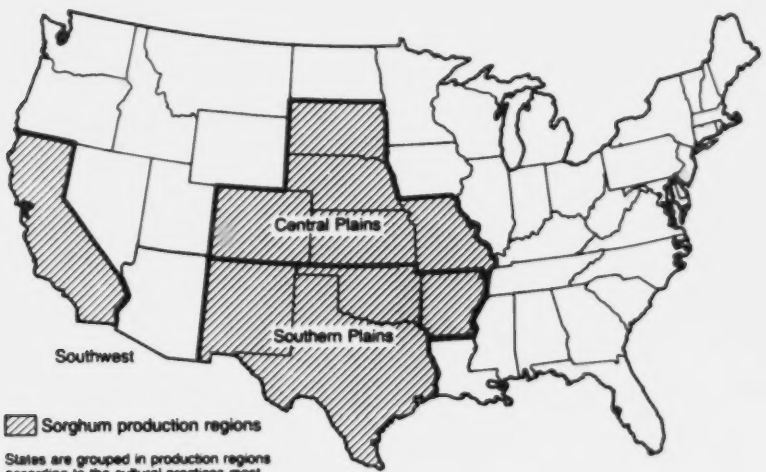
Corn Production Regions



States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 2

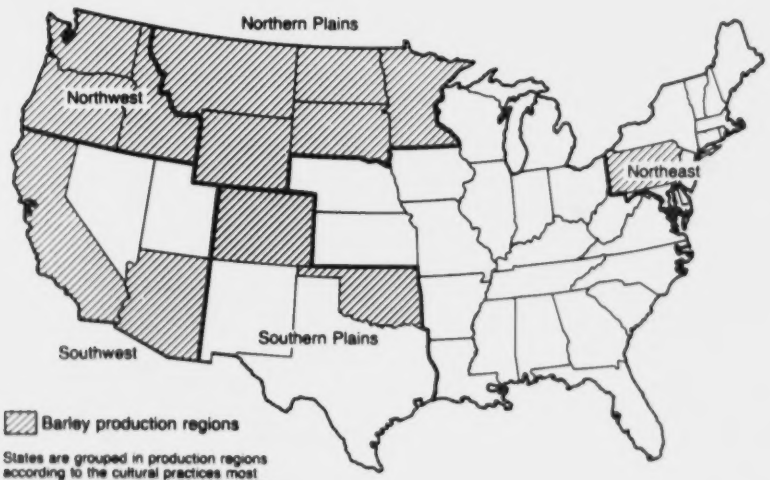
Sorghum Production Regions



States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 3

Barley Production Regions



States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 4

Oats Production Regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 5

Wheat Production Regions (Winter Wheat)

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 6

Wheat Production Regions (Spring Wheat, Durum, and White)

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 7

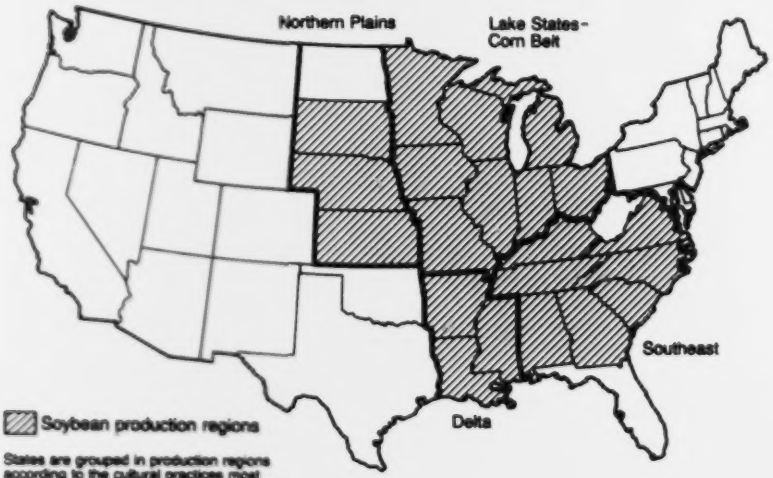
Rice Production Regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Gulf Coast region includes southwestern Louisiana and Southeastern Texas. Delta region includes northeastern Louisiana, western Mississippi, eastern Arkansas, and southeastern Missouri.

Figure 8

Soybean Production Regions



States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 9

Sunflower Production Region

Sunflower production region

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 10

Peanuts Production Regions

Peanuts production regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 11

Flax Production Region

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 12

Cotton Production Regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 13

Sugar Beet Production Regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 14

Sugarcane Production Regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one crop, therefore, are not necessarily the same as those for another crop.

Figure 15

Fed Cattle Production Region

Fed Cattle production regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

Figure 16

Cow-Calf Production Regions

Cow-Calf production regions

States are grouped in production regions according to the practices most prevalent in raising the particular animal. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

Figure 17

Hog Production Regions

Hog production regions

States are grouped in production regions according to the practices most prevalent in raising the particular animal. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

Figure 18

Sheep Production Region

Sheep production region

States are grouped in production regions according to the practices most prevalent in raising the particular animal. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

Figure 19

Dairy Production Regions

States are grouped in production regions according to the practices most prevalent in raising the particular animal. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

TABLE 1--U.S. CORN PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	252.90	273.23	260.16
TOTAL	252.90	273.23	260.16
CASH EXPENSES:			
SEED	16.65	18.03	18.47
FERTILIZER	48.03	50.93	50.03
LIME AND GYPSUM	1.59	1.58	1.53
CHEMICALS	19.12	18.52	17.58
CUSTOM OPERATIONS	6.69	6.86	7.05
FUEL, LUBE, AND ELECTRICITY	15.96	14.14	13.49
REPAIRS	10.34	11.16	11.25
HIRED LABOR	1.49	1.62	1.70
PURCHASED IRRIGATION WATER	.35	.36	.35
DRYING	4.99	5.35	5.56
MISCELLANEOUS	.23	.23	.23
TECHNICAL SERVICES	.83	.81	.85
TOTAL, VARIABLE EXPENSES	126.27	129.59	128.10
GENERAL FARM OVERHEAD	15.22	15.37	15.29
TAXES AND INSURANCE	13.45	16.77	17.16
INTEREST	45.10	45.91	44.56
TOTAL, FIXED EXPENSES	73.77	78.05	77.01
TOTAL, CASH EXPENSES	200.04	207.64	205.11
RECEIPTS LESS CASH EXPENSES	52.86	65.59	55.05
CAPITAL REPLACEMENT	33.56	33.96	33.70
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	19.30	31.63	21.35
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	126.27	129.59	128.10
GENERAL FARM OVERHEAD	15.22	15.37	15.29
TAXES AND INSURANCE	13.45	16.77	17.16
CAPITAL REPLACEMENT	33.56	33.96	33.70
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.75	5.40	4.19
RETURN TO OTHER NONLAND CAPITAL 4/	12.17	12.79	12.92
NET LAND RENT 5/	47.95	67.61	57.46
UNPAID LABOR	12.06	13.10	13.77
TOTAL, ECONOMIC COSTS	265.43	294.59	282.59
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-12.53	-21.36	-22.43
TOTAL, RETURNS TO OWNED INPUTS 7/	64.40	77.54	65.91
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.21	2.58	2.22
YIELD (BU./PLANTED ACRE)	78.76	105.79	116.96

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 2--CORN PRODUCTION COSTS, LAKE STATES AND CORN BELT, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	256.72	275.04	268.25
TOTAL	256.72	275.04	268.25
CASH EXPENSES:			
SEED	17.39	18.62	18.85
FERTILIZER	51.38	53.96	52.34
LIME AND GYPSUM	1.25	1.27	1.39
CHEMICALS	19.81	19.37	18.46
CUSTOM OPERATIONS	6.20	6.42	6.67
FUEL, LUBE, AND ELECTRICITY	11.96	10.51	9.86
REPAIRS	8.76	9.76	9.92
HIRED LABOR	1.30	1.44	1.53
DRYING	5.84	6.16	6.50
MISCELLANEOUS	.16	.16	.16
TECHNICAL SERVICES	1.05	1.02	1.10
TOTAL, VARIABLE EXPENSES	125.10	128.69	126.78
GENERAL FARM OVERHEAD	14.28	14.61	14.73
TAXES AND INSURANCE	13.84	18.33	19.00
INTEREST	45.77	47.29	46.02
TOTAL, FIXED EXPENSES	73.89	80.23	79.76
TOTAL, CASH EXPENSES	198.99	208.92	206.54
RECEIPTS LESS CASH EXPENSES	57.73	66.12	61.71
CAPITAL REPLACEMENT	34.11	34.17	34.07
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	23.62	31.95	27.64
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	125.10	128.69	126.78
GENERAL FARM OVERHEAD	14.28	14.61	14.73
TAXES AND INSURANCE	13.84	18.33	19.00
CAPITAL REPLACEMENT	34.11	34.17	34.07
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.76	5.41	4.15
RETURN TO OTHER NONLAND CAPITAL 4/	12.16	12.83	13.09
NET LAND RENT 5/	50.11	76.04	64.29
UNPAID LABOR	10.49	11.66	12.35
TOTAL, ECONOMIC COSTS	264.85	301.74	288.47
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-8.13	-26.70	-20.22
TOTAL, RETURNS TO OWNED INPUTS 7/	69.39	79.24	73.67
HARVEST-PERIOD PRICE (LLARS/BU.)	3.17	2.53	2.20
YIELD (BU./PLANTED ACRE)	81.02	108.65	122.21

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 3--CORN PRODUCTION COSTS, NORTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	272.93	313.71	242.85
TOTAL	272.93	313.71	242.85
CASH EXPENSES:			
SEED	14.22	16.16	18.03
FERTILIZER	44.19	46.40	45.21
LIME AND GYPSUM	8.32	8.62	7.33
CHEMICALS	19.05	18.58	18.01
CUSTOM OPERATIONS	7.93	8.46	8.98
FUEL, LUBE, AND ELECTRICITY	12.21	11.86	10.68
REPAIRS	10.25	11.76	11.01
HIRED LABOR	1.69	1.86	1.78
DRYING	4.64	5.26	5.53
MISCELLANEOUS	.28	.29	.28
TECHNICAL SERVICES	.14	.14	.17
TOTAL, VARIABLE EXPENSES	122.92	129.39	127.02
GENERAL FARM OVERHEAD	25.19	25.60	26.57
TAXES AND INSURANCE	16.34	17.40	15.99
INTEREST	31.61	37.91	38.09
TOTAL, FIXED EXPENSES	73.14	80.91	80.65
TOTAL, CASH EXPENSES	196.06	210.30	207.66
RECEIPTS LESS CASH EXPENSES	76.87	103.41	35.19
CAPITAL REPLACEMENT	26.54	29.98	29.20
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	50.33	73.43	5.99
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	122.92	129.39	127.02
GENERAL FARM OVERHEAD	25.19	25.60	26.57
TAXES AND INSURANCE	16.34	17.40	15.99
CAPITAL REPLACEMENT	26.54	29.98	29.20
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.14	4.73	3.83
RETURN TO OTHER NONLAND CAPITAL 4/	10.92	12.38	11.52
NET LAND RENT 5/	27.86	29.83	29.73
UNPAID LABOR	13.65	15.09	14.44
TOTAL, ECONOMIC COSTS	247.56	264.39	258.29
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	25.37	49.32	-15.44
TOTAL, RETURNS TO OWNED INPUTS 7/	81.94	111.34	44.07
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.70	2.94	2.37
YIELD (BU./PLANTED ACRE)	73.69	106.55	102.26

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 4--CORN PRODUCTION COSTS, NORTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	244.74	263.79	252.86
TOTAL	244.74	263.79	252.86
CASH EXPENSES:			
SEED	15.38	17.07	17.76
FERTILIZER	28.91	33.44	38.18
LIME AND GYPSUM	.03	.02	.02
CHEMICALS	17.09	16.20	15.31
CUSTOM OPERATIONS	5.22	5.13	5.15
FUEL, LUBE, AND ELECTRICITY	29.44	25.95	23.82
REPAIRS	15.75	16.08	15.76
HIRED LABOR	1.91	2.05	2.09
PURCHASED IRRIGATION WATER	1.35	1.37	1.37
DRYING	3.79	3.85	3.98
MISCELLANEOUS	.28	.29	.28
TECHNICAL SERVICES	.49	.45	.44
TOTAL, VARIABLE EXPENSES	119.64	121.90	124.17
GENERAL FARM OVERHEAD	17.81	17.77	17.54
TAXES AND INSURANCE	15.39	16.44	16.81
INTEREST	51.12	48.22	46.08
TOTAL, FIXED EXPENSES	84.32	82.43	80.43
TOTAL, CASH EXPENSES	203.96	204.33	204.60
RECEIPTS LESS CASH EXPENSES	40.78	59.46	48.26
CAPITAL REPLACEMENT	38.09	38.47	37.60
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.69	20.99	10.66
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	119.64	121.90	124.17
GENERAL FARM OVERHEAD	17.81	17.77	17.54
TAXES AND INSURANCE	15.39	16.44	16.81
CAPITAL REPLACEMENT	38.09	38.47	37.60
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.59	5.26	4.24
RETURN TO OTHER NONLAND CAPITAL 4/	14.50	14.85	14.73
NET LAND RENT 5/	49.73	55.29	46.71
UNPAID LABOR	15.47	16.56	16.94
TOTAL, ECONOMIC COSTS	275.22	286.54	278.73
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-30.48	-22.75	-25.87
TOTAL, RETURNS TO OWNED INPUTS 7/	53.81	69.21	56.74
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.08	2.55	2.18
YIELD (BU./PLANTED ACRE)	79.40	103.59	115.84

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 5--CORN PRODUCTION COSTS, SOUTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	205.85	248.12	210.19
TOTAL	205.85	248.12	210.19
CASH EXPENSES:			
SEED	15.04	17.02	17.26
FERTILIZER	60.02	62.38	57.43
LIME AND GYPSUM	4.06	4.21	4.13
CHEMICALS	17.49	16.37	15.67
CUSTOM OPERATIONS	9.94	10.54	10.51
FUEL, LUBE, AND ELECTRICITY	13.08	11.57	10.87
REPAIRS	9.50	10.70	10.51
HIRED LABOR	1.66	1.78	1.80
DRYING	2.12	3.18	3.25
MISCELLANEOUS	.18	.18	.18
TECHNICAL SERVICES	.18	.19	.17
TOTAL, VARIABLE EXPENSES	133.27	138.12	131.78
GENERAL FARM OVERHEAD	10.26	10.44	10.42
TAXES AND INSURANCE	6.68	7.26	7.60
INTEREST	32.99	34.20	33.17
TOTAL, FIXED EXPENSES	49.93	51.90	51.19
TOTAL, CASH EXPENSES	183.20	190.02	182.97
RECEIPTS LESS CASH EXPENSES	22.65	58.10	27.22
CAPITAL REPLACEMENT	22.93	24.85	24.46
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-.28	33.25	2.76
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	133.27	138.12	131.78
GENERAL FARM OVERHEAD	10.26	10.44	10.42
TAXES AND INSURANCE	6.68	7.26	7.60
CAPITAL REPLACEMENT	22.93	24.85	24.46
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.71	5.31	3.97
RETURN TO OTHER NONLAND CAPITAL 4/	8.17	8.99	8.92
NET LAND RENT 5/	33.48	42.93	35.86
UNPAID LABOR	13.42	14.41	14.53
TOTAL, ECONOMIC COSTS	232.92	252.31	237.55
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-27.07	-4.19	-27.36
TOTAL, RETURNS TO OWNED INPUTS 7/	32.71	67.45	35.93
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.67	2.79	2.37
YIELD (BU./PLANTED ACRE)	56.04	88.90	88.59

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 6--CORN PRODUCTION COSTS, SOUTHWEST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	331.10	309.06	296.74
TOTAL	331.10	309.06	296.74
CASH EXPENSES:			
SEED	15.11	14.99	18.51
FERTILIZER	48.80	47.78	47.16
LIME AND GYPSUM	.44	.59	.58
CHEMICALS	19.74	17.56	16.75
CUSTOM OPERATIONS	15.22	14.14	14.29
FUEL, LUBE, AND ELECTRICITY	48.18	45.90	45.50
REPAIRS	19.14	17.67	17.35
HIRED LABOR	2.88	2.68	2.99
PURCHASED IRRIGATION WATER	4.62	4.70	4.68
DRYING	1.32	1.25	1.27
MISCELLANEOUS	1.64	1.67	1.66
TECHNICAL SERVICES	.41	.34	.34
TOTAL, VARIABLE EXPENSES	177.50	169.28	171.09
GENERAL FARM OVERHEAD	23.01	22.30	22.20
TAXES AND INSURANCE	9.27	9.42	9.60
INTEREST	53.20	46.15	44.49
TOTAL, FIXED EXPENSES	85.48	77.87	76.29
TOTAL, CASH EXPENSES	262.98	247.15	247.37
RECEIPTS LESS CASH EXPENSES	68.12	61.91	49.37
CAPITAL REPLACEMENT	38.18	36.65	35.97
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	29.94	25.26	13.40
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	177.50	169.28	171.09
GENERAL FARM OVERHEAD	23.01	22.30	22.20
TAXES AND INSURANCE	9.27	9.42	9.60
CAPITAL REPLACEMENT	38.18	36.65	35.97
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	6.51	6.89	5.55
RETURN TO OTHER NONLAND CAPITAL 4/	13.45	12.66	12.54
NET LAND RENT 5/	63.52	59.93	57.89
UNPAID LABOR	23.32	21.72	24.19
TOTAL, ECONOMIC COSTS	354.76	338.84	339.03
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-23.66	-29.78	-42.29
TOTAL, RETURNS TO OWNED INPUTS 7/	83.14	71.41	57.88
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.25	3.07	2.73
YIELD (BU./PLANTED ACRE)	101.93	100.78	108.82

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 7--U.S. SORGHUM PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	131.58	123.45	120.77
TOTAL	131.58	123.45	120.77
CASH EXPENSES:			
SEED	3.89	3.76	4.11
FERTILIZER	18.53	19.60	19.34
LIME AND GYPSUM	.59	.72	.77
CHEMICALS	9.26	8.84	8.52
CUSTOM OPERATIONS	3.75	3.54	3.55
FUEL, LUBE, AND ELECTRICITY	16.61	14.56	13.72
REPAIRS	10.30	10.06	10.09
HIRED LABOR	1.84	1.80	1.99
PURCHASED IRRIGATION WATER	.30	.31	.30
DRYING	.47	.54	.61
MISCELLANEOUS	.26	.26	.26
TECHNICAL SERVICES	.17	.17	.16
TOTAL, VARIABLE EXPENSES	65.97	64.16	63.42
GENERAL FARM OVERHEAD	7.65	7.67	7.57
TAXES AND INSURANCE	7.82	8.90	9.26
INTEREST	20.76	19.86	18.95
TOTAL, FIXED EXPENSES	36.23	36.43	35.78
TOTAL, CASH EXPENSES	102.20	100.59	99.20
RECEIPTS LESS CASH EXPENSES	29.38	22.86	21.57
CAPITAL REPLACEMENT	26.74	26.14	26.20
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.64	-3.28	-4.63
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	65.97	64.16	63.42
GENERAL FARM OVERHEAD	7.65	7.67	7.57
TAXES AND INSURANCE	7.82	8.90	9.26
CAPITAL REPLACEMENT	26.74	26.14	26.20
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.29	2.42	1.86
RETURN TO OTHER NONLAND CAPITAL 4/	9.48	10.46	10.64
NET LAND RENT 5/	31.18	28.64	27.61
UNPAID LABOR	11.31	11.08	12.20
TOTAL, ECONOMIC COSTS	162.44	159.47	158.76
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-30.86	-36.02	-37.99
TOTAL, RETURNS TO OWNED INPUTS 7/	23.40	16.58	14.32
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.84	2.34	1.89
YIELD (BU./PLANTED ACRE)	46.29	52.69	63.74

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 8--SORGHUM PRODUCTION COSTS, CENTRAL PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	127.27	119.87	122.46
TOTAL	127.27	119.87	122.46
CASH EXPENSES:			
SEED	3.50	3.54	3.48
FERTILIZER	18.08	20.42	19.21
LIME AND GYPSUM	.96	1.12	1.14
CHEMICALS	10.26	9.97	9.62
CUSTOM OPERATIONS	2.57	2.53	2.55
FUEL, LUBE, AND ELECTRICITY	14.06	11.70	11.21
REPAIRS	9.56	9.45	9.76
HIRED LABOR	1.59	1.64	1.76
PURCHASED IRRIGATION WATER	.09	.09	.09
DRYING	.73	.78	.93
MISCELLANEOUS	.13	.13	.13
TECHNICAL SERVICES	.24	.21	.22
TOTAL, VARIABLE EXPENSES	61.77	61.58	60.11
GENERAL FARM OVERHEAD	7.76	7.74	7.80
TAXES AND INSURANCE	9.53	10.77	11.59
INTEREST	23.03	21.86	21.36
TOTAL, FIXED EXPENSES	40.32	40.37	40.75
TOTAL, CASH EXPENSES	102.09	101.95	100.85
RECEIPTS LESS CASH EXPENSES	25.18	17.92	21.61
CAPITAL REPLACEMENT	28.20	26.88	27.29
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-3.02	-8.96	-5.68
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	61.77	61.58	60.11
GENERAL FARM OVERHEAD	7.76	7.74	7.80
TAXES AND INSURANCE	9.53	10.77	11.59
CAPITAL REPLACEMENT	28.20	26.88	27.29
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.23	2.36	1.78
RETURN TO OTHER NONLAND CAPITAL 4/	10.36	11.79	12.37
NET LAND RENT 5/	30.24	27.55	27.54
UNPAID LABOR	9.75	10.05	10.84
TOTAL, ECONOMIC COSTS	159.84	158.72	159.31
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-32.57	-38.85	-36.85
TOTAL, RETURNS TO OWNED INPUTS 7/	20.01	12.90	15.68
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.78	2.22	1.79
YIELD (BU./PLANTED ACRE)	45.73	54.11	68.37

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 9--SORGHUM PRODUCTION COSTS, SOUTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	135.47	128.49	118.05
TOTAL	135.47	128.49	118.05
CASH EXPENSES:			
SEED	4.30	4.05	4.94
FERTILIZER	18.99	18.03	19.46
LIME AND GYPSUM	.13	.03	.25
CHEMICALS	7.91	6.86	6.96
CUSTOM OPERATIONS	5.07	5.10	4.85
FUEL, LUBE, AND ELECTRICITY	19.65	19.33	17.09
REPAIRS	11.19	11.05	10.52
HIRED LABOR	2.12	2.05	2.27
PURCHASED IRRIGATION WATER	.50	.51	.51
DRYING	.14	.12	.18
MISCELLANEOUS	.42	.43	.43
TECHNICAL SERVICES	.09	.08	.09
TOTAL, VARIABLE EXPENSES	70.51	67.64	67.54
GENERAL FARM OVERHEAD	7.37	7.41	7.16
TAXES AND INSURANCE	5.53	5.57	5.94
INTEREST	17.58	16.17	15.43
TOTAL, FIXED EXPENSES	30.48	29.15	28.53
TOTAL, CASH EXPENSES	100.99	96.79	96.07
RECEIPTS LESS CASH EXPENSES	34.48	31.70	21.98
CAPITAL REPLACEMENT	24.72	24.73	24.60
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	9.76	6.97	-2.62
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	70.51	67.64	67.54
GENERAL FARM OVERHEAD	7.37	7.41	7.16
TAXES AND INSURANCE	5.53	5.57	5.94
CAPITAL REPLACEMENT	24.72	24.73	24.60
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.33	2.49	1.96
RETURN TO OTHER NONLAND CAPITAL 4/	8.29	8.14	8.20
NET LAND RENT 5/	31.94	30.16	27.56
UNPAID LABOR	13.05	12.62	13.94
TOTAL, ECONOMIC COSTS	163.74	158.76	156.90
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-28.27	-30.27	-38.85
TOTAL, RETURNS TO OWNED INPUTS 7/	27.34	23.14	12.81
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.90	2.57	2.06
YIELD (BU./PLANTED ACRE)	46.65	49.94	57.19

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 10--SORGHUM PRODUCTION COSTS, SOUTHWEST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	278.92	243.54	173.45
TOTAL	278.92	243.54	173.45
CASH EXPENSES:			
SEED	13.09	11.86	11.86
FERTILIZER	30.62	32.26	31.36
CHEMICALS	11.86	11.08	10.57
CUSTOM OPERATIONS	19.10	19.87	17.81
FUEL, LUBE, AND ELECTRICITY	37.37	34.03	36.52
REPAIRS	15.69	15.74	15.21
HIRED LABOR	5.56	5.82	6.06
PURCHASED IRRIGATION WATER	6.48	6.60	6.57
DRYING	.09	.08	.07
MISCELLANEOUS	.73	.74	.74
TECHNICAL SERVICES	.68	.68	.68
TOTAL, VARIABLE EXPENSES	141.27	138.76	137.45
GENERAL FARM OVERHEAD	20.91	21.31	21.21
TAXES AND INSURANCE	16.94	17.65	17.13
INTEREST	45.63	42.11	40.59
TOTAL, FIXED EXPENSES	83.48	81.07	78.94
TOTAL, CASH EXPENSES	224.75	219.83	216.39
RECEIPTS LESS CASH EXPENSES	54.17	23.71	-42.94
CAPITAL REPLACEMENT	39.45	39.43	37.73
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	14.72	-15.72	-80.67
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	141.27	138.76	137.45
GENERAL FARM OVERHEAD	20.91	21.31	21.21
TAXES AND INSURANCE	16.94	17.65	17.13
CAPITAL REPLACEMENT	39.45	39.43	37.73
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.80	5.28	4.21
RETURN TO OTHER NONLAND CAPITAL 4/	14.31	14.11	13.64
NET LAND RENT 5/	71.10	66.60	51.49
UNPAID LABOR	34.16	35.76	37.24
TOTAL, ECONOMIC COSTS	342.94	338.90	320.10
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-64.02	-95.36	-146.65
TOTAL, RETURNS TO OWNED INPUTS 7/	60.35	26.39	-40.08
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.52	2.97	2.38
YIELD (BU./PLANTED ACRE)	79.24	82.00	72.88

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 11--U.S. BARLEY PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	116.99	115.52	84.16
SECONDARY CROP	3.32	3.75	3.40
TOTAL	120.31	119.27	87.56
CASH EXPENSES:			
SEED	5.53	6.48	6.11
FERTILIZER	16.20	16.27	15.75
LIME AND GYPSUM	.04	.03	.03
CHEMICALS	5.91	5.70	5.43
CUSTOM OPERATIONS	3.77	3.46	3.10
FUEL, LUBE, AND ELECTRICITY	11.74	10.18	8.90
REPAIRS	9.66	9.78	8.90
HIRED LABOR	1.44	1.37	1.31
PURCHASED IRRIGATION WATER	1.62	1.65	1.64
MISCELLANEOUS	.69	.70	.70
TECHNICAL SERVICES	.13	.12	.13
TOTAL, VARIABLE EXPENSES	56.73	55.74	52.00
GENERAL FARM OVERHEAD	9.33	9.35	9.04
TAXES AND INSURANCE	8.53	8.71	8.55
INTEREST	24.36	24.91	23.21
TOTAL, FIXED EXPENSES	42.22	42.97	40.80
TOTAL, CASH EXPENSES	98.95	98.71	92.80
RECEIPTS LESS CASH EXPENSES	21.36	20.56	-5.24
CAPITAL REPLACEMENT	24.56	24.89	22.78
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-3.20	-4.33	-28.02
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	56.73	55.74	52.00
GENERAL FARM OVERHEAD	9.33	9.35	9.04
TAXES AND INSURANCE	8.53	8.71	8.55
CAPITAL REPLACEMENT	24.56	24.89	22.78
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.53	1.66	1.25
RETURN TO OTHER NONLAND CAPITAL 4/	9.14	9.17	8.31
NET LAND RENT 5/	31.83	30.72	21.38
UNPAID LABOR	9.63	9.15	8.75
TOTAL, ECONOMIC COSTS	151.28	149.39	132.06
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-30.97	-30.12	-44.50
TOTAL, RETURNS TO OWNED INPUTS 7/	21.16	20.58	-4.81
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.36	2.29	1.86
YIELD (BU./PLANTED ACRE)	49.65	50.46	45.16

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 12--BARLEY PRODUCTION COSTS, NORTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	112.93	124.24	98.38
SECONDARY CROP	67.62	70.07	70.07
TOTAL	180.55	194.31	168.45
CASH EXPENSES:			
SEED	8.60	9.92	9.59
FERTILIZER	19.25	20.28	19.24
LIME AND GYPSUM	4.84	4.95	4.97
CHEMICALS	.19	.19	.18
CUSTOM OPERATIONS	6.74	6.82	6.89
FUEL, LUBE, AND ELECTRICITY	12.69	11.03	10.83
REPAIRS	9.00	8.87	8.85
HIRED LABOR	2.44	2.33	2.47
MISCELLANEOUS	1.93	1.97	1.96
TOTAL, VARIABLE EXPENSES	65.68	66.36	64.97
GENERAL FARM OVERHEAD	10.31	10.51	10.46
TAXES AND INSURANCE	20.69	20.58	21.76
INTEREST	12.94	15.56	15.00
TOTAL, FIXED EXPENSES	43.94	46.65	47.22
TOTAL, CASH EXPENSES	109.62	113.01	112.20
RECEIPTS LESS CASH EXPENSES	70.93	81.30	56.25
CAPITAL REPLACEMENT	25.63	29.11	28.75
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	45.30	52.19	27.50
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	65.68	66.36	64.97
GENERAL FARM OVERHEAD	10.31	10.51	10.46
TAXES AND INSURANCE	20.69	20.58	21.76
CAPITAL REPLACEMENT	25.63	29.11	28.75
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.24	1.41	1.09
RETURN TO OTHER NONLAND CAPITAL 4/	11.91	12.62	12.62
NET LAND RENT 5/	30.78	34.27	29.25
UNPAID LABOR	16.34	15.60	16.51
TOTAL, ECONOMIC COSTS	182.58	190.46	185.42
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-2.03	3.85	-16.97
TOTAL, RETURNS TO OWNED INPUTS 7/	58.24	67.75	42.50
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.20	2.56	1.70
YIELD (BU./PLANTED ACRE)	51.33	48.53	57.87

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 13--BARLEY PRODUCTION COSTS, NORTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	92.81	93.95	67.02
SECONDARY CROP	2.14	2.93	2.65
TOTAL	94.95	96.88	69.67
CASH EXPENSES:			
SEED	4.14	5.54	5.02
FERTILIZER	13.76	14.31	14.19
CHEMICALS	5.36	5.27	5.02
CUSTOM OPERATIONS	1.57	1.66	1.39
FUEL, LUBE, AND ELECTRICITY	8.95	7.46	6.20
REPAIRS	8.00	8.09	7.11
HIRED LABOR	1.18	1.16	1.07
PURCHASED IRRIGATION WATER	.31	.32	.31
MISCELLANEOUS	.21	.21	.21
TECHNICAL SERVICES	.12	.12	.13
TOTAL, VARIABLE EXPENSES	43.60	44.34	40.66
GENERAL FARM OVERHEAD	7.19	7.39	7.25
TAXES AND INSURANCE	7.31	7.62	7.31
INTEREST	20.07	20.89	19.77
TOTAL, FIXED EXPENSES	34.57	35.90	34.33
TOTAL, CASH EXPENSES	78.17	80.24	74.99
RECEIPTS LESS CASH EXPENSES	16.78	16.64	-5.32
CAPITAL REPLACEMENT	23.05	23.14	20.63
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.27	-6.50	-25.95
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	43.60	44.34	40.66
GENERAL FARM OVERHEAD	7.19	7.39	7.25
TAXES AND INSURANCE	7.31	7.62	7.31
CAPITAL REPLACEMENT	23.05	23.14	20.63
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.28	1.43	1.07
RETURN TO OTHER NONLAND CAPITAL 4/	8.68	8.64	7.55
NET LAND RENT 5/	28.56	27.75	19.12
UNPAID LABOR	7.93	7.73	7.19
TOTAL, ECONOMIC COSTS	127.60	128.04	110.77
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-32.65	-31.16	-41.10
TOTAL, RETURNS TO OWNED INPUTS 7/	13.80	14.39	-6.18
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.13	2.11	1.62
YIELD (BU./PLANTED ACRE)	43.55	44.54	41.41

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 14--BARLEY PRODUCTION COSTS, NORTHWEST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	163.42	152.99	114.48
SECONDARY CROP	4.38	4.46	4.00
TOTAL	167.80	157.45	118.48
CASH EXPENSES:			
SEED	7.21	7.78	7.65
FERTILIZER	19.57	19.37	18.77
CHEMICALS	7.33	7.01	6.84
CUSTOM OPERATIONS	3.83	3.85	3.67
FUEL, LUBE, AND ELECTRICITY	15.01	13.71	12.35
REPAIRS	13.49	13.63	13.05
HIRED LABOR	1.83	1.67	1.69
PURCHASED IRRIGATION WATER	2.95	3.00	2.99
MISCELLANEOUS	.63	.64	.64
TECHNICAL SERVICES	.08	.08	.08
TOTAL, VARIABLE EXPENSES	71.93	70.75	67.72
GENERAL FARM OVERHEAD	12.31	12.58	12.19
TAXES AND INSURANCE	9.99	10.39	10.85
INTEREST	30.60	32.10	29.43
TOTAL, FIXED EXPENSES	52.90	55.07	52.46
TOTAL, CASH EXPENSES	124.83	125.82	120.19
RECEIPTS LESS CASH EXPENSES	42.97	31.63	-1.71
CAPITAL REPLACEMENT	28.37	28.96	27.62
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	14.60	2.67	-29.33
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	71.93	70.75	67.72
GENERAL FARM OVERHEAD	12.31	12.58	12.19
TAXES AND INSURANCE	9.99	10.39	10.85
CAPITAL REPLACEMENT	28.37	28.96	27.62
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.64	1.81	1.38
RETURN TO OTHER NONLAND CAPITAL 4/	10.31	10.41	9.98
NET LAND RENT 5/	41.03	38.60	26.58
UNPAID LABOR	12.24	11.21	11.28
TOTAL, ECONOMIC COSTS	187.82	184.71	167.60
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-20.02	-27.26	-49.12
TOTAL, RETURNS TO OWNED INPUTS 7/	43.20	34.77	.10
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.61	2.39	2.20
YIELD (BU./PLANTED ACRE)	62.58	64.08	52.03

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 15--BARLEY PRODUCTION COSTS, SOUTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	155.22	145.42	129.58
SECONDARY CROP	4.68	3.72	3.46
TOTAL	159.90	149.14	133.04
CASH EXPENSES:			
SEED	7.21	7.62	7.02
FERTILIZER	19.66	16.63	15.25
CHEMICALS	7.17	5.85	5.27
CUSTOM OPERATIONS	16.73	14.46	13.56
FUEL, LUBE, AND ELECTRICITY	25.09	20.96	19.42
REPAIRS	14.49	12.84	12.23
HIRED LABOR	1.94	1.76	1.69
PURCHASED IRRIGATION WATER	2.52	2.57	2.55
MISCELLANEOUS	.45	.46	.46
TECHNICAL SERVICES	.07	.05	.05
TOTAL, VARIABLE EXPENSES	95.33	83.20	77.50
GENERAL FARM OVERHEAD	15.54	13.90	13.41
TAXES AND INSURANCE	8.25	7.71	8.07
INTEREST	42.06	40.18	37.55
TOTAL, FIXED EXPENSES	65.85	61.79	59.03
TOTAL, CASH EXPENSES	161.18	144.99	136.52
RECEIPTS LESS CASH EXPENSES	-1.28	4.15	-3.48
CAPITAL REPLACEMENT	30.77	28.11	27.19
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-32.05	-23.96	-30.67
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	95.33	83.20	77.50
GENERAL FARM OVERHEAD	15.54	13.90	13.41
TAXES AND INSURANCE	8.25	7.71	8.07
CAPITAL REPLACEMENT	30.77	28.11	27.19
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.12	2.20	1.62
RETURN TO OTHER NONLAND CAPITAL 4/	11.49	10.17	9.89
NET LAND RENT 5/	31.90	31.33	26.92
UNPAID LABOR	13.00	11.79	11.27
TOTAL, ECONOMIC COSTS	208.40	188.40	175.87
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-48.50	-39.26	-42.83
TOTAL, RETURNS TO OWNED INPUTS 7/	10.01	16.22	6.87
HARVEST-PERIOD PRICE (DOLLARS/BU.)	2.33	2.67	2.36
YIELD (BU./PLANTED ACRE)	66.52	54.37	54.81

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 16--BARLEY PRODUCTION COSTS, SOUTHWEST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	175.23	184.19	138.32
SECONDARY CROP	2.77	2.08	2.17
TOTAL	178.00	186.27	140.49
CASH EXPENSES:			
SEED	12.37	10.69	12.60
FERTILIZER	26.34	22.63	22.58
CHEMICALS	6.46	5.59	5.23
CUSTOM OPERATIONS	18.72	15.33	15.74
FUEL, LUBE, AND ELECTRICITY	21.28	19.48	21.69
REPAIRS	10.25	10.89	10.91
HIRED LABOR	2.24	2.15	2.28
PURCHASED IRRIGATION WATER	9.91	10.09	10.05
MISCELLANEOUS	5.80	5.91	5.88
TECHNICAL SERVICES	.43	.33	.35
TOTAL, VARIABLE EXPENSES	113.80	103.08	107.30
GENERAL FARM OVERHEAD	16.95	15.17	15.20
TAXES AND INSURANCE	14.19	13.51	13.25
INTEREST	37.65	31.59	31.06
TOTAL, FIXED EXPENSES	68.79	60.27	59.51
TOTAL, CASH EXPENSES	182.59	163.35	166.82
RECEIPTS LESS CASH EXPENSES	-4.59	22.92	-26.33
CAPITAL REPLACEMENT	22.72	24.86	24.67
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-27.31	-1.94	-51.00
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	113.80	103.08	107.30
GENERAL FARM OVERHEAD	16.95	15.17	15.20
TAXES AND INSURANCE	14.19	13.51	13.25
CAPITAL REPLACEMENT	22.72	24.86	24.67
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.45	3.40	2.74
RETURN TO OTHER NONLAND CAPITAL 4/	8.00	8.74	8.75
NET LAND RENT 5/	31.78	30.12	21.97
UNPAID LABOR	14.96	14.35	15.25
TOTAL, ECONOMIC COSTS	225.85	213.24	209.14
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-47.85	-26.97	-68.65
TOTAL, RETURNS TO OWNED INPUTS 7/	10.34	29.65	-19.94
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.14	3.18	2.54
YIELD (BU./PLANTED ACRE)	55.84	57.85	54.53

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 17--U.S. OATS PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	70.82	83.96	48.38
SECONDARY CROP	23.78	20.78	22.59
TOTAL	94.60	104.74	70.97
CASH EXPENSES:			
SEED	5.71	8.82	8.46
FERTILIZER	9.91	10.81	9.96
LIME AND GYPSUM	1.31	1.38	1.36
CHEMICALS	1.34	1.32	1.11
CUSTOM OPERATIONS	4.04	4.10	3.95
FUEL, LUBE, AND ELECTRICITY	10.53	8.80	7.67
REPAIRS	7.86	7.95	7.24
HIRED LABOR	1.16	1.22	1.20
MISCELLANEOUS	.96	.98	.97
TECHNICAL SERVICES	.06	.06	.06
TOTAL, VARIABLE EXPENSES	42.88	45.44	41.99
GENERAL FARM OVERHEAD	5.18	5.32	5.28
TAXES AND INSURANCE	12.35	13.33	13.73
INTEREST	14.07	14.66	14.44
TOTAL, FIXED EXPENSES	31.60	33.31	33.45
TOTAL, CASH EXPENSES	74.48	78.75	75.43
RECEIPTS LESS CASH EXPENSES	20.12	25.99	-4.46
CAPITAL REPLACEMENT	22.98	23.09	20.91
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-2.86	2.90	-25.37
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	42.88	45.44	41.99
GENERAL FARM OVERHEAD	5.18	5.32	5.28
TAXES AND INSURANCE	12.35	13.33	13.73
CAPITAL REPLACEMENT	22.98	23.09	20.91
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.03	1.25	.90
RETURN TO OTHER NONLAND CAPITAL 4/	9.81	9.96	9.15
NET LAND RENT 5/	24.25	26.35	16.78
UNPAID LABOR	11.76	12.34	12.17
TOTAL, ECONOMIC COSTS	130.24	137.08	120.90
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-35.64	-32.34	-49.93
TOTAL, RETURNS TO OWNED INPUTS 7/	11.21	17.56	-10.93
HARVEST-PERIOD PRICE (DOLLARS/BU.)	1.45	1.65	1.09
YIELD (BU./PLANTED ACRE)	48.92	50.82	44.27

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 18--OATS PRODUCTION COSTS, LAKE STATES AND CORN BELT, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	80.06	93.19	50.40
SECONDARY CROP	38.70	30.02	31.65
TOTAL	118.76	123.21	82.05
CASH EXPENSES:			
SEED	6.37	10.26	9.65
FERTILIZER	11.33	12.16	10.75
LIME AND GYPSUM	1.47	1.54	1.49
CHEMICALS	1.39	1.41	1.07
CUSTOM OPERATIONS	5.48	5.15	5.18
FUEL, LUBE, AND ELECTRICITY	12.34	10.11	8.81
REPAIRS	8.12	8.10	7.51
HIRED LABOR	1.41	1.45	1.43
MISCELLANEOUS	1.34	1.36	1.36
TECHNICAL SERVICES	.08	.08	.08
TOTAL, VARIABLE EXPENSES	49.33	51.62	47.33
GENERAL FARM OVERHEAD	5.48	5.61	5.45
TAXES AND INSURANCE	16.48	17.56	17.65
INTEREST	16.05	17.14	16.57
TOTAL, FIXED EXPENSES	38.01	40.31	39.68
TOTAL, CASH EXPENSES	87.34	91.93	87.00
RECEIPTS LESS CASH EXPENSES	31.42	31.28	-4.95
CAPITAL REPLACEMENT	26.26	25.21	23.26
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	5.16	6.07	-28.21
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	49.33	51.62	47.33
GENERAL FARM OVERHEAD	5.48	5.61	5.45
TAXES AND INSURANCE	16.48	17.56	17.65
CAPITAL REPLACEMENT	26.26	25.21	23.26
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.26	1.51	1.03
RETURN TO OTHER NONLAND CAPITAL 4/	11.25	11.17	10.44
NET LAND RENT 5/	31.83	33.51	20.97
UNPAID LABOR	14.26	14.63	14.45
TOTAL, ECONOMIC COSTS	156.15	160.82	140.58
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-37.39	-37.61	-58.53
TOTAL, RETURNS TO OWNED INPUTS 7/	21.21	23.21	-11.64
HARVEST-PERIOD PRICE (DOLLARS/BU.)	1.52	1.69	1.10
YIELD (BU./PLANTED ACRE)	52.73	55.10	45.89

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 19--OATS PRODUCTION COSTS, NORTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	86.17	106.09	69.02
SECONDARY CROP	37.91	41.34	41.17
TOTAL	124.08	147.43	110.19
CASH EXPENSES:			
SEED	7.29	12.47	12.61
FERTILIZER	19.82	20.86	19.97
LIME AND GYPSUM	9.78	10.08	9.97
CHEMICALS	3.13	3.02	2.95
CUSTOM OPERATIONS	5.56	5.51	5.60
FUEL, LUBE, AND ELECTRICITY	13.52	11.70	11.02
REPAIRS	10.08	10.00	9.85
HIRED LABOR	1.66	1.63	1.69
MISCELLANEOUS	1.34	1.36	1.36
TECHNICAL SERVICES	.16	.15	.17
TOTAL, VARIABLE EXPENSES	72.34	76.79	75.18
GENERAL FARM OVERHEAD	9.57	9.75	9.71
TAXES AND INSURANCE	17.04	17.24	18.28
INTEREST	12.01	14.43	13.92
TOTAL, FIXED EXPENSES	38.62	41.42	41.91
TOTAL, CASH EXPENSES	110.96	118.21	117.09
RECEIPTS LESS CASH EXPENSES	13.12	29.22	-6.90
CAPITAL REPLACEMENT	30.07	31.42	30.92
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-16.95	-2.20	-37.82
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	72.34	76.79	75.18
GENERAL FARM OVERHEAD	9.57	9.75	9.71
TAXES AND INSURANCE	17.04	17.24	18.28
CAPITAL REPLACEMENT	30.07	31.42	30.92
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.89	2.26	1.72
RETURN TO OTHER NONLAND CAPITAL 4/	13.90	14.01	13.90
NET LAND RENT 5/	11.04	12.03	8.66
UNPAID LABOR	16.81	16.49	17.04
TOTAL, ECONOMIC COSTS	172.66	179.98	175.40
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-48.58	-32.55	-65.21
TOTAL, RETURNS TO OWNED INPUTS 7/	-4.94	12.23	-23.90
HARVEST-PERIOD PRICE (DOLLARS/BU.)	1.60	1.96	1.05
YIELD (BU./PLANTED ACRE)	53.74	54.24	65.61

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 20--OATS PRODUCTION COSTS, NORTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	59.06	70.24	42.75
SECONDARY CROP	6.27	7.24	7.58
TOTAL	65.33	77.48	50.33
CASH EXPENSES:			
SEED	4.80	6.65	6.27
FERTILIZER	7.08	7.88	7.53
CHEMICALS	1.05	.97	.92
CUSTOM OPERATIONS	2.32	2.69	2.02
FUEL, LUBE, AND ELECTRICITY	8.22	6.89	5.66
REPAIRS	7.29	7.49	6.52
HIRED LABOR	.84	.90	.83
MISCELLANEOUS	.51	.52	.52
TECHNICAL SERVICES	.02	.02	.02
TOTAL, VARIABLE EXPENSES	32.13	34.01	30.28
GENERAL FARM OVERHEAD	4.26	4.38	4.41
TAXES AND INSURANCE	7.39	7.90	7.72
INTEREST	12.28	11.81	11.56
TOTAL, FIXED EXPENSES	23.93	24.09	23.69
TOTAL, CASH EXPENSES	56.06	58.10	53.97
RECEIPTS LESS CASH EXPENSES	9.27	19.38	-3.64
CAPITAL REPLACEMENT	18.59	19.50	16.30
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-9.32	-.12	-19.94
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	32.13	34.01	30.28
GENERAL FARM OVERHEAD	4.26	4.38	4.41
TAXES AND INSURANCE	7.39	7.90	7.72
CAPITAL REPLACEMENT	18.59	19.50	16.30
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	.68	.80	.61
RETURN TO OTHER NONLAND CAPITAL 4/	7.73	8.00	6.71
NET LAND RENT 5/	18.13	20.01	12.12
UNPAID LABOR	8.45	9.10	8.36
TOTAL, ECONOMIC COSTS	97.36	103.70	86.52
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-32.03	-26.22	-36.19
TOTAL, RETURNS TO OWNED INPUTS 7/	2.96	11.69	-8.38
HARVEST-PERIOD PRICE (DOLLARS/BU.)	1.33	1.55	1.09
YIELD (BU./PLANTED ACRE)	44.29	45.39	39.11

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 21--U.S. WHEAT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	128.52	114.51	96.31
SECONDARY CROP	4.45	4.48	4.35
TOTAL	132.97	118.99	100.66
CASH EXPENSES:			
SEED	6.37	6.49	6.02
FERTILIZER	17.69	17.84	15.94
LIME AND GYPSUM	.67	.60	.54
CHEMICALS	3.27	3.01	2.93
CUSTOM OPERATIONS	5.90	5.88	6.09
FUEL, LUBE, AND ELECTRICITY	11.06	9.61	9.00
REPAIRS	7.77	7.68	7.60
HIRED LABOR	.83	.81	.84
PURCHASED IRRIGATION WATER	.33	.34	.33
MISCELLANEOUS	.38	.39	.39
TECHNICAL SERVICES	.12	.11	.12
TOTAL, VARIABLE EXPENSES	54.39	52.76	49.80
GENERAL FARM OVERHEAD	8.05	8.69	8.93
TAXES AND INSURANCE	7.69	7.74	7.85
INTEREST	21.86	23.19	22.94
TOTAL, FIXED EXPENSES	37.60	39.62	39.72
TOTAL, CASH EXPENSES	91.99	92.38	89.52
RECEIPTS LESS CASH EXPENSES	40.98	26.61	11.14
CAPITAL REPLACEMENT	21.02	20.88	20.30
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	19.96	5.73	-9.16
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	54.39	52.76	49.80
GENERAL FARM OVERHEAD	8.05	8.69	8.93
TAXES AND INSURANCE	7.69	7.74	7.85
CAPITAL REPLACEMENT	21.02	20.88	20.30
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.51	2.75	1.97
RETURN TO OTHER NONLAND CAPITAL 4/	7.49	7.26	7.16
NET LAND RENT 5/	34.41	29.88	23.75
UNPAID LABOR	9.52	9.38	9.63
TOTAL, ECONOMIC COSTS	145.08	139.33	129.39
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-12.11	-20.34	-28.73
TOTAL, RETURNS TO OWNED INPUTS 7/	41.82	28.92	13.78
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.48	3.37	2.92
YIELD (BU./PLANTED ACRE)	36.89	33.96	32.94

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 22--U.S. HARD RED WINTER WHEAT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	123.91	101.44	84.20
SECONDARY CROP	4.40	4.81	5.08
TOTAL	128.31	106.25	89.28
CASH EXPENSES:			
SEED	4.78	4.41	4.40
FERTILIZER	11.85	13.19	12.57
LIME AND GYPSUM	.36	.27	.28
CHEMICALS	1.86	1.75	1.50
CUSTOM OPERATIONS	7.72	7.52	8.15
FUEL, LUBE, AND ELECTRICITY	12.13	10.65	9.99
REPAIRS	7.89	7.66	7.51
HIRED LABOR	.82	.80	.84
PURCHASED IRRIGATION WATER	.32	.33	.32
MISCELLANEOUS	.24	.24	.24
TECHNICAL SERVICES	.06	.06	.06
TOTAL, VARIABLE EXPENSES	48.03	46.88	45.87
GENERAL FARM OVERHEAD	8.07	8.02	7.78
TAXES AND INSURANCE	6.88	6.89	7.07
INTEREST	21.80	20.58	19.13
TOTAL, FIXED EXPENSES	36.75	35.49	33.98
TOTAL, CASH EXPENSES	84.78	82.37	79.85
RECEIPTS LESS CASH EXPENSES	43.53	23.88	9.43
CAPITAL REPLACEMENT	20.10	19.56	18.90
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	23.43	4.32	-9.47
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	48.03	46.88	45.87
GENERAL FARM OVERHEAD	8.07	8.02	7.78
TAXES AND INSURANCE	6.88	6.89	7.07
CAPITAL REPLACEMENT	20.10	19.56	18.90
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.42	2.65	1.98
RETURN TO OTHER NONLAND CAPITAL 4/	7.06	6.63	6.51
NET LAND RENT 5/	33.38	26.49	20.83
UNPAID LABOR	9.37	9.21	9.70
TOTAL, ECONOMIC COSTS	135.31	126.33	118.64
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-7.00	-20.08	-29.36
TOTAL, RETURNS TO OWNED INPUTS 7/	45.23	24.90	9.65
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.40	3.33	2.73
YIELD (BU./PLANTED ACRE)	36.44	30.47	30.87

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 23--HARD RED WINTER WHEAT PRODUCTION COSTS, CENTRAL PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	130.40	111.90	89.82
SECONDARY CROP	2.11	2.19	2.15
TOTAL	132.51	114.09	91.97
CASH EXPENSES:			
SEED	4.30	4.30	4.27
FERTILIZER	10.14	9.99	9.28
LIME AND GYPSUM	.63	.51	.50
CHEMICALS	1.15	1.10	1.03
CUSTOM OPERATIONS	6.90	6.93	7.25
FUEL, LUBE, AND ELECTRICITY	9.99	8.45	7.61
REPAIRS	7.58	7.41	7.37
HIRED LABOR	.79	.78	.81
PURCHASED IRRIGATION WATER	.03	.03	.03
MISCELLANEOUS	.22	.22	.22
TECHNICAL SERVICES	.06	.07	.07
TOTAL, VARIABLE EXPENSES	41.79	39.80	38.44
GENERAL FARM OVERHEAD	8.79	9.04	9.01
TAXES AND INSURANCE	8.11	8.51	8.80
INTEREST	25.12	24.71	23.87
TOTAL, FIXED EXPENSES	42.02	42.26	41.68
TOTAL, CASH EXPENSES	83.81	82.06	80.12
RECEIPTS LESS CASH EXPENSES	48.70	32.03	11.85
CAPITAL REPLACEMENT	20.33	19.98	20.00
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	28.37	12.05	-8.15
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	41.79	39.80	38.44
GENERAL FARM OVERHEAD	8.79	9.04	9.01
TAXES AND INSURANCE	8.11	8.51	8.80
CAPITAL REPLACEMENT	20.33	19.98	20.00
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.22	2.39	1.78
RETURN TO OTHER NONLAND CAPITAL 4/	7.40	7.04	7.14
NET LAND RENT 5/	36.52	30.06	22.69
UNPAID LABOR	9.05	9.02	9.26
TOTAL, ECONOMIC COSTS	134.21	125.83	117.12
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-1.70	-11.74	-25.15
TOTAL, RETURNS TO OWNED INPUTS 7/	53.49	36.76	15.72
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.37	3.29	2.62
YIELD (BU./PLANTED ACRE)	38.73	34.02	34.34

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 24--HARD RED WINTER WHEAT PRODUCTION COSTS, NORTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	123.96	96.73	80.62
SECONDARY CROP	.51	.79	1.03
TOTAL	124.47	97.52	81.65
CASH EXPENSES:			
SEED	4.46	4.59	5.17
FERTILIZER	13.39	15.20	16.19
CHEMICALS	3.78	3.77	2.18
CUSTOM OPERATIONS	3.96	4.15	5.75
FUEL, LUBE, AND ELECTRICITY	9.96	8.11	9.22
REPAIRS	8.16	8.08	8.83
HIRED LABOR	.83	.69	.82
PURCHASED IRRIGATION WATER	.28	.29	.28
MISCELLANEOUS	.07	.07	.07
TECHNICAL SERVICES	0	0	.01
TOTAL, VARIABLE EXPENSES	44.89	44.95	48.53
GENERAL FARM OVERHEAD	9.68	10.02	10.99
TAXES AND INSURANCE	6.87	7.11	6.71
INTEREST	26.30	29.33	31.16
TOTAL, FIXED EXPENSES	42.85	46.46	48.86
TOTAL, CASH EXPENSES	87.74	91.41	97.38
RECEIPTS LESS CASH EXPENSES	36.73	6.11	-15.73
CAPITAL REPLACEMENT	23.45	23.71	20.04
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	13.28	-17.60	-35.77
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	44.89	44.95	48.53
GENERAL FARM OVERHEAD	9.68	10.02	10.99
TAXES AND INSURANCE	6.87	7.11	6.71
CAPITAL REPLACEMENT	23.45	23.71	20.04
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.89	3.27	2.94
RETURN TO OTHER NONLAND CAPITAL 4/	8.11	7.99	7.08
NET LAND RENT 5/	33.30	24.14	18.99
UNPAID LABOR	9.51	7.99	9.46
TOTAL, ECONOMIC COSTS	138.70	129.18	124.74
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-14.23	-31.66	-43.09
TOTAL, RETURNS TO OWNED INPUTS 7/	39.58	11.73	-4.62
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.66	3.42	3.11
YIELD (BU./PLANTED ACRE)	33.87	28.30	25.96

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 25--HARD RED WINTER WHEAT PRODUCTION COSTS, SOUTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	102.60	80.04	67.92
SECONDARY CROP	9.51	9.35	9.24
TOTAL	112.11	89.39	77.16
CASH EXPENSES:			
SEED	5.02	4.08	4.13
FERTILIZER	12.20	15.52	15.34
CHEMICALS	1.94	1.82	1.73
CUSTOM OPERATIONS	8.43	7.74	8.12
FUEL, LUBE, AND ELECTRICITY	14.30	12.71	11.48
REPAIRS	7.92	7.59	7.32
HIRED LABOR	.78	.78	.82
MISCELLANEOUS	.01	.01	.01
TECHNICAL SERVICES	.01	0	0
TOTAL, VARIABLE EXPENSES	50.61	50.25	48.96
GENERAL FARM OVERHEAD	4.80	5.00	4.89
TAXES AND INSURANCE	4.08	4.11	4.26
INTEREST	11.58	10.84	10.24
TOTAL, FIXED EXPENSES	20.46	19.95	19.39
TOTAL, CASH EXPENSES	71.07	70.20	68.34
RECEIPTS LESS CASH EXPENSES	41.04	19.19	8.82
CAPITAL REPLACEMENT	17.87	17.40	16.67
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	23.17	1.79	-7.85
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	50.61	50.25	48.96
GENERAL FARM OVERHEAD	4.80	5.00	4.89
TAXES AND INSURANCE	4.08	4.11	4.26
CAPITAL REPLACEMENT	17.87	17.40	16.67
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.34	2.63	2.01
RETURN TO OTHER NONLAND CAPITAL 4/	5.84	5.51	5.38
NET LAND RENT 5/	25.28	19.75	16.16
UNPAID LABOR	8.93	8.95	9.48
TOTAL, ECONOMIC COSTS	119.75	113.60	107.81
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-7.64	-24.21	-30.65
TOTAL, RETURNS TO OWNED INPUTS 7/	34.75	12.63	2.39
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.32	3.36	2.85
YIELD (BU./PLANTED ACRE)	30.92	23.80	23.80

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 26--HARD RED WINTER WHEAT PRODUCTION COSTS, SOUTHWEST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	253.36	240.90	243.66
SECONDARY CROP	4.75	4.53	4.72
TOTAL	258.11	245.43	248.38
CASH EXPENSES:			
SEED	13.89	12.31	12.05
FERTILIZER	41.00	43.52	40.41
CHEMICALS	10.15	9.45	8.32
CUSTOM OPERATIONS	31.42	31.52	32.59
FUEL, LUBE, AND ELECTRICITY	40.77	38.63	41.88
REPAIRS	13.50	13.61	13.52
HIRED LABOR	1.92	2.02	2.13
PURCHASED IRRIGATION WATER	11.21	11.41	11.36
MISCELLANEOUS	4.46	4.54	4.52
TECHNICAL SERVICES	.97	1.00	.98
TOTAL, VARIABLE EXPENSES	169.29	168.01	167.77
GENERAL FARM OVERHEAD	28.16	28.77	27.58
TAXES AND INSURANCE	15.01	15.31	15.64
INTEREST	62.27	58.08	53.97
TOTAL, FIXED EXPENSES	105.44	102.16	97.19
TOTAL, CASH EXPENSES	274.73	270.17	264.96
RECEIPTS LESS CASH EXPENSES	-16.62	-24.74	-16.58
CAPITAL REPLACEMENT	31.42	31.86	31.32
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-48.04	-56.60	-47.90
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	169.29	168.01	167.77
GENERAL FARM OVERHEAD	28.16	28.77	27.58
TAXES AND INSURANCE	15.01	15.31	15.64
CAPITAL REPLACEMENT	31.42	31.86	31.32
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	6.34	7.04	5.50
RETURN TO OTHER NONLAND CAPITAL 4/	11.31	11.30	11.24
NET LAND RENT 5/	67.46	66.95	61.13
UNPAID LABOR	22.08	23.18	24.52
TOTAL, ECONOMIC COSTS	351.07	352.43	344.69
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-92.96	-107.00	-96.31
TOTAL, RETURNS TO OWNED INPUTS 7/	14.23	1.48	6.08
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.87	3.47	3.13
YIELD (BU./PLANTED ACRE)	65.47	69.50	77.82

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 27--U.S. SOFT RED WINTER WHEAT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	124.07	124.70	105.44
SECONDARY CROP	8.97	8.39	8.63
TOTAL	133.04	133.09	114.07
CASH EXPENSES:			
SEED	9.46	11.13	10.41
FERTILIZER	34.55	36.81	33.97
LIME AND GYPSUM	2.35	2.48	2.79
CHEMICALS	1.65	1.55	1.57
CUSTOM OPERATIONS	6.32	6.34	6.44
FUEL, LUBE, AND ELECTRICITY	9.68	7.84	7.40
REPAIRS	6.42	6.26	6.21
HIRED LABOR	.88	.86	.89
MISCELLANEOUS	.91	.93	.92
TECHNICAL SERVICES	.12	.11	.14
TOTAL, VARIABLE EXPENSES	72.34	74.31	70.74
GENERAL FARM OVERHEAD	6.45	6.37	6.14
TAXES AND INSURANCE	8.92	8.44	8.40
INTEREST	19.34	19.66	18.32
TOTAL, FIXED EXPENSES	34.71	34.47	32.86
TOTAL, CASH EXPENSES	107.05	108.78	103.60
RECEIPTS LESS CASH EXPENSES	25.99	24.31	10.47
CAPITAL REPLACEMENT	20.79	20.46	19.61
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	5.20	3.85	-9.14
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	72.34	74.31	70.74
GENERAL FARM OVERHEAD	6.45	6.37	6.14
TAXES AND INSURANCE	8.92	8.44	8.40
CAPITAL REPLACEMENT	20.79	20.46	19.61
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.52	4.09	3.05
RETURN TO OTHER NONLAND CAPITAL 4/	7.47	7.18	6.98
NET LAND RENT 5/	28.33	27.34	23.16
UNPAID LABOR	10.12	9.91	10.25
TOTAL, ECONOMIC COSTS	157.94	158.10	148.33
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-24.90	-25.01	-34.26
TOTAL, RETURNS TO OWNED INPUTS 7/	24.54	23.51	9.17
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.27	3.25	2.97
YIELD (BU./PLANTED ACRE)	37.89	38.37	35.54

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 28--SOFT RED WINTER WHEAT PRODUCTION COSTS, LAKE STATES AND CORN BELT, 1983-85 1/, 2/

[illegible]	[illegible]	[illegible]	[illegible]
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	142.00	131.91	129.22
SECONDARY CROP	13.36	13.24	14.17
TOTAL	155.36	145.15	143.39
CASH EXPENSES:			
SEED	9.09	10.91	10.44
FERTILIZER	37.25	40.45	36.16
LIME AND GYPSUM	2.19	2.44	2.19
CHEMICALS	.47	.39	.36
CUSTOM OPERATIONS	5.47	5.54	5.52
FUEL, LUBE, AND ELECTRICITY	10.11	8.07	7.73
REPAIRS	6.35	6.00	6.13
HIRED LABOR	.94	.91	.98
MISCELLANEOUS	.88	.90	.89
TECHNICAL SERVICES	.12	.11	.12
TOTAL, VARIABLE EXPENSES	72.87	75.71	70.52
GENERAL FARM OVERHEAD	7.57	7.48	7.45
TAXES AND INSURANCE	13.14	12.34	12.61
INTEREST	25.15	25.13	24.22
TOTAL, FIXED EXPENSES	45.86	44.95	44.28
TOTAL, CASH EXPENSES	118.73	120.66	114.80
RECEIPTS LESS CASH EXPENSES	36.63	24.49	28.59
CAPITAL REPLACEMENT	22.44	21.45	21.19
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	14.19	3.04	7.40
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	72.87	75.71	70.52
GENERAL FARM OVERHEAD	7.57	7.48	7.45
TAXES AND INSURANCE	13.14	12.34	12.61
CAPITAL REPLACEMENT	22.44	21.45	21.19
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.60	4.22	3.07
RETURN TO OTHER NONLAND CAPITAL 4/	8.66	8.16	8.24
NET LAND RENT 5/	35.91	32.25	31.19
UNPAID LABOR	10.79	10.45	11.24
TOTAL, ECONOMIC COSTS	174.98	172.07	165.51
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-19.62	-26.92	-22.12
TOTAL, RETURNS TO OWNED INPUTS 7/	39.34	28.17	31.62
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.28	3.26	2.82
YIELD (BU./PLANTED ACRE)	43.30	40.44	45.75

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 29--SOFT RED WINTER WHEAT PRODUCTION COSTS, NORTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	133.15	129.91	163.72
SECONDARY CROP	59.31	72.14	72.18
TOTAL	192.46	202.05	235.90
CASH EXPENSES:			
SEED	12.13	15.03	13.68
FERTILIZER	25.81	23.34	22.27
LIME AND GYPSUM	5.56	8.02	8.06
CHEMICALS	1.00	.32	.30
CUSTOM OPERATIONS	5.41	5.58	5.64
FUEL, LUBE, AND ELECTRICITY	14.23	12.93	12.42
REPAIRS	10.21	10.42	10.67
HIRED LABOR	1.53	1.82	1.95
MISCELLANEOUS	2.06	2.10	2.09
TECHNICAL SERVICES	.16	.14	.14
TOTAL, VARIABLE EXPENSES	78.10	79.70	77.22
GENERAL FARM OVERHEAD	12.40	12.19	12.14
TAXES AND INSURANCE	19.17	20.76	22.07
INTEREST	15.57	18.04	17.39
TOTAL, FIXED EXPENSES	47.14	50.99	51.60
TOTAL, CASH EXPENSES	125.24	130.69	128.82
RECEIPTS LESS CASH EXPENSES	67.22	71.36	107.08
CAPITAL REPLACEMENT	32.00	34.40	34.29
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	35.22	36.96	72.79
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	78.10	79.70	77.22
GENERAL FARM OVERHEAD	12.40	12.19	12.14
TAXES AND INSURANCE	19.17	20.76	22.07
CAPITAL REPLACEMENT	32.00	34.40	34.29
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	4.50	5.08	3.83
RETURN TO OTHER NONLAND CAPITAL 4/	13.20	14.23	14.46
NET LAND RENT 5/	20.70	22.89	23.07
UNPAID LABOR	17.63	20.99	22.48
TOTAL, ECONOMIC COSTS	197.70	210.24	209.55
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-5.24	-8.19	26.35
TOTAL, RETURNS TO OWNED INPUTS 7/	50.79	55.00	90.18
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.38	3.56	3.56
YIELD (BU./PLANTED ACRE)	39.37	36.46	45.94

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 30--SOFT RED WINTER WHEAT PRODUCTION COSTS, SOUTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	105.57	117.61	83.61
SECONDARY CROP	1.60	1.48	1.35
TOTAL	107.17	119.09	84.96
CASH EXPENSES:			
SEED	9.68	11.20	10.23
FERTILIZER	32.33	33.82	32.69
LIME AND GYPSUM	2.32	2.33	3.04
CHEMICALS	2.87	2.68	2.61
CUSTOM OPERATIONS	7.23	7.14	7.24
FUEL, LUBE, AND ELECTRICITY	8.99	7.43	6.90
REPAIRS	6.27	6.35	6.09
HIRED LABOR	.78	.78	.77
MISCELLANEOUS	.86	.88	.87
TECHNICAL SERVICES	.12	.13	.14
TOTAL, VARIABLE EXPENSES	71.45	72.74	70.59
GENERAL FARM OVERHEAD	4.98	5.10	4.81
TAXES AND INSURANCE	4.09	4.28	4.39
INTEREST	13.74	14.50	13.56
TOTAL, FIXED EXPENSES	22.81	23.88	22.76
TOTAL, CASH EXPENSES	94.26	96.62	93.35
RECEIPTS LESS CASH EXPENSES	12.91	22.47	-8.39
CAPITAL REPLACEMENT	18.47	19.03	17.69
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.56	3.44	-26.08
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	71.45	72.74	70.59
GENERAL FARM OVERHEAD	4.98	5.10	4.81
TAXES AND INSURANCE	4.09	4.28	4.39
CAPITAL REPLACEMENT	18.47	19.03	17.69
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.38	3.94	2.99
RETURN TO OTHER NONLAND CAPITAL 4/	5.94	6.00	5.63
NET LAND RENT 5/	21.18	22.81	16.66
UNPAID LABOR	9.00	9.00	8.91
TOTAL, ECONOMIC COSTS	138.49	142.90	131.67
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-31.32	-23.81	-46.71
TOTAL, RETURNS TO OWNED INPUTS 7/	8.18	17.94	-12.51
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.26	3.23	3.12
YIELD (BU./PLANTED ACRE)	32.38	36.46	26.80

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 31--U.S. HARD RED SPRING WHEAT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	108.35	118.39	105.59
SECONDARY CROP	.91	.92	.90
TOTAL	109.26	119.31	106.49
CASH EXPENSES:			
SEED	7.10	7.49	6.99
FERTILIZER	12.38	11.38	10.94
CHEMICALS	5.81	5.38	5.09
CUSTOM OPERATIONS	1.95	2.09	2.07
FUEL, LUBE, AND ELECTRICITY	8.86	7.65	7.01
REPAIRS	7.18	7.53	7.37
HIRED LABOR	.68	.71	.72
PURCHASED IRRIGATION WATER	.23	.23	.23
MISCELLANEOUS	.21	.21	.21
TECHNICAL SERVICES	.25	.24	.23
TOTAL, VARIABLE EXPENSES	44.65	42.92	40.87
GENERAL FARM OVERHEAD	7.36	11.57	12.57
TAXES AND INSURANCE	7.22	7.87	7.88
INTEREST	20.59	32.95	34.81
TOTAL, FIXED EXPENSES	35.17	52.39	55.26
TOTAL, CASH EXPENSES	79.82	95.31	96.13
RECEIPTS LESS CASH EXPENSES	29.44	24.00	10.36
CAPITAL REPLACEMENT	21.59	22.63	21.97
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	7.85	1.37	-11.61
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	44.65	42.92	40.87
GENERAL FARM OVERHEAD	7.36	11.57	12.57
TAXES AND INSURANCE	7.22	7.87	7.88
CAPITAL REPLACEMENT	21.59	22.63	21.97
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.27	1.40	1.03
RETURN TO OTHER NONLAND CAPITAL 4/	7.87	8.22	8.06
NET LAND RENT 5/	34.07	35.64	27.89
UNPAID LABOR	7.87	8.21	8.32
TOTAL, ECONOMIC COSTS	131.90	138.46	128.59
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-22.64	-19.15	-22.10
TOTAL, RETURNS TO OWNED INPUTS 7/	28.44	34.32	23.20
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.77	3.54	3.25
YIELD (BU./PLANTED ACRE)	28.76	33.44	32.49

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 32--U.S. DURUM WHEAT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	104.30	108.02	98.91
SECONDARY CROP	.65	.71	.73
TOTAL	104.95	108.73	99.64
CASH EXPENSES:			
SEED	7.13	7.73	7.05
FERTILIZER	8.96	8.31	8.47
CHEMICALS	5.67	5.38	5.35
CUSTOM OPERATIONS	1.13	1.13	1.09
FUEL, LUBE, AND ELECTRICITY	8.45	7.27	6.77
REPAIRS	7.31	7.69	7.67
HIRED LABOR	.68	.73	.75
MISCELLANEOUS	.23	.23	.23
TECHNICAL SERVICES	.29	.30	.30
TOTAL, VARIABLE EXPENSES	39.85	38.78	37.68
GENERAL FARM OVERHEAD	6.36	6.50	6.44
TAXES AND INSURANCE	7.05	7.67	7.92
INTEREST	18.26	17.59	16.89
TOTAL, FIXED EXPENSES	31.67	31.76	31.25
TOTAL, CASH EXPENSES	71.52	70.54	68.93
RECEIPTS LESS CASH EXPENSES	33.43	38.19	30.71
CAPITAL REPLACEMENT	21.02	22.68	22.56
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	12.41	15.51	8.15
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	39.85	38.78	37.68
GENERAL FARM OVERHEAD	6.36	6.50	6.44
TAXES AND INSURANCE	7.05	7.67	7.92
CAPITAL REPLACEMENT	21.02	22.68	22.56
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.29	1.44	1.05
RETURN TO OTHER NONLAND CAPITAL 4/	7.73	8.19	8.29
NET LAND RENT 5/	34.20	36.25	29.73
UNPAID LABOR	7.77	8.41	8.57
TOTAL, ECONOMIC COSTS	125.27	129.91	122.24
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-20.32	-21.18	-22.60
TOTAL, RETURNS TO OWNED INPUTS 7/	30.67	33.10	25.04
HARVEST-PERIOD PRICE (DOLLARS/BU.)	4.10	3.86	3.01
YIELD (BU./PLANTED ACRE)	25.44	28.02	32.90

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 33--U.S. WHITE WHEAT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	231.23	192.09	149.17
SECONDARY CROP	2.32	2.16	2.29
TOTAL	233.55	194.25	151.46
CASH EXPENSES:			
SEED	6.61	7.24	6.42
FERTILIZER	27.40	26.31	26.98
CHEMICALS	10.38	10.23	9.58
CUSTOM OPERATIONS	3.76	3.77	4.00
FUEL, LUBE, AND ELECTRICITY	13.91	12.73	11.99
REPAIRS	12.37	12.52	12.11
HIRED LABOR	1.18	1.14	1.10
PURCHASED IRRIGATION WATER	1.71	1.74	1.73
MISCELLANEOUS	.37	.38	.38
TECHNICAL SERVICES	.16	.16	.17
TOTAL, VARIABLE EXPENSES	77.85	76.21	74.46
GENERAL FARM OVERHEAD	14.80	15.21	14.99
TAXES AND INSURANCE	11.30	12.71	13.23
INTEREST	34.09	33.98	32.10
TOTAL, FIXED EXPENSES	60.19	61.90	60.32
TOTAL, CASH EXPENSES	138.04	138.11	134.78
RECEIPTS LESS CASH EXPENSES	95.51	56.14	16.68
CAPITAL REPLACEMENT	26.65	27.65	26.91
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	68.86	28.49	-10.23
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	77.85	76.21	74.46
GENERAL FARM OVERHEAD	14.80	15.21	14.99
TAXES AND INSURANCE	11.30	12.71	13.23
CAPITAL REPLACEMENT	26.65	27.65	26.91
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.79	4.16	3.19
RETURN TO OTHER NONLAND CAPITAL 4/	9.51	9.68	9.41
NET LAND RENT 5/	59.27	46.82	32.62
UNPAID LABOR	13.58	13.06	12.66
TOTAL, ECONOMIC COSTS	216.75	205.51	187.47
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	16.80	-11.26	-36.01
TOTAL, RETURNS TO OWNED INPUTS 7/	102.95	62.47	21.87
HARVEST-PERIOD PRICE (DOLLARS/BU.)	3.75	3.39	3.20
YIELD (BU./PLANTED ACRE)	61.72	56.74	46.56

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 34--U.S. RICE PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	400.12	398.15	431.39
TOTAL	400.12	398.15	431.39
CASH EXPENSES:			
SEED	25.89	28.13	26.16
FERTILIZER	35.51	37.45	36.55
CHEMICALS	28.04	27.99	26.88
CUSTOM OPERATIONS	32.60	32.96	33.24
FUEL, LUBE, AND ELECTRICITY	46.45	44.69	42.35
REPAIRS	22.24	22.66	22.63
HIRED LABOR	13.04	13.07	13.54
PURCHASED IRRIGATION WATER	8.14	8.29	8.25
DRYING	35.29	37.91	38.77
TECHNICAL SERVICES	1.48	1.49	1.47
TOTAL, VARIABLE EXPENSES	248.68	254.64	249.84
GENERAL FARM OVERHEAD	23.08	23.68	24.98
TAXES AND INSURANCE	10.47	10.80	11.47
INTEREST	49.38	54.05	54.55
TOTAL, FIXED EXPENSES	82.93	88.53	91.00
TOTAL, CASH EXPENSES	331.60	343.17	340.84
RECEIPTS LESS CASH EXPENSES	68.52	54.98	90.55
CAPITAL REPLACEMENT	47.94	49.19	48.80
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	20.58	5.79	41.75
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	248.68	254.64	249.84
GENERAL FARM OVERHEAD	23.08	23.68	24.98
TAXES AND INSURANCE	10.47	10.80	11.47
CAPITAL REPLACEMENT	47.94	49.19	48.80
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	6.78	7.93	6.09
RETURN TO OTHER NONLAND CAPITAL 4/	17.16	17.27	17.25
NET LAND RENT 5/	65.00	62.23	73.35
UNPAID LABOR	22.19	22.26	23.05
TOTAL, ECONOMIC COSTS	441.30	448.00	454.83
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-41.18	-49.85	-23.44
TOTAL, RETURNS TO OWNED INPUTS 7/	69.96	59.84	96.30
HARVEST-PERIOD PRICE (DOLLARS/CWT.)	8.79	8.15	7.90
YIELD (CWT./PLANTED ACRE)	45.53	48.85	54.58

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 35--RICE PRODUCTION COSTS, ARKANSAS (NON-DELTA), 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	381.21	374.92	439.97
TOTAL	381.21	374.92	439.97
CASH EXPENSES:			
SEED	27.43	29.88	28.74
FERTILIZER	32.08	34.12	32.95
CHEMICALS	26.69	26.67	26.68
CUSTOM OPERATIONS	24.61	24.67	24.66
FUEL, LUBE, AND ELECTRICITY	48.61	40.57	38.60
REPAIRS	21.14	21.34	20.93
HIRED LABOR	13.30	13.19	13.00
PURCHASED IRRIGATION WATER	1.04	1.06	1.05
DRYING	33.78	36.62	36.61
TECHNICAL SERVICES	1.61	1.61	1.61
TOTAL, VARIABLE EXPENSES	230.29	229.73	224.84
GENERAL FARM OVERHEAD	17.25	17.78	17.70
TAXES AND INSURANCE	8.84	9.21	9.55
INTEREST	35.18	45.17	43.52
TOTAL, FIXED EXPENSES	61.27	72.16	70.77
TOTAL, CASH EXPENSES	291.56	301.89	295.61
RECEIPTS LESS CASH EXPENSES	89.65	73.03	144.36
CAPITAL REPLACEMENT	44.32	45.63	44.77
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	45.33	27.40	99.59
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	230.29	229.73	224.84
GENERAL FARM OVERHEAD	17.25	17.78	17.70
TAXES AND INSURANCE	8.84	9.21	9.55
CAPITAL REPLACEMENT	44.32	45.63	44.77
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	6.34	7.06	5.41
RETURN TO OTHER NONLAND CAPITAL 4/	16.46	16.57	16.40
NET LAND RENT 5/	67.27	66.49	85.46
UNPAID LABOR	22.64	22.46	22.14
TOTAL, ECONOMIC COSTS	413.41	414.93	426.26
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-32.20	-40.01	13.71
TOTAL, RETURNS TO OWNED INPUTS 7/	80.51	72.57	143.11
HARVEST-PERIOD PRICE (DOLLARS/CWT.)	8.93	8.19	8.46
YIELD (CWT./PLANTED ACRE)	42.69	45.78	52.01

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 36--RICE PRODUCTION COSTS, CALIFORNIA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	582.15	534.86	470.43
TOTAL	582.15	534.86	470.43
CASH EXPENSES:			
SEED	24.15	26.28	22.85
FERTILIZER	43.52	45.96	44.08
CHEMICALS	25.24	25.24	25.24
CUSTOM OPERATIONS	57.75	57.80	57.80
FUEL, LUBE, AND ELECTRICITY	28.50	24.33	24.85
REPAIRS	25.15	25.15	24.69
HIRED LABOR	12.17	12.71	13.33
PURCHASED IRRIGATION WATER	21.84	22.24	22.14
DRYING	51.26	51.35	51.35
TECHNICAL SERVICES	1.42	1.42	1.42
TOTAL, VARIABLE EXPENSES	291.00	292.48	286.55
GENERAL FARM OVERHEAD	54.13	55.16	54.91
TAXES AND INSURANCE	18.68	18.78	18.55
INTEREST	118.12	108.99	105.07
TOTAL, FIXED EXPENSES	190.93	182.93	178.53
TOTAL, CASH EXPENSES	481.93	475.41	465.08
RECEIPTS LESS CASH EXPENSES	100.22	59.45	5.35
CAPITAL REPLACEMENT	49.75	47.82	46.93
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	50.47	11.63	-41.58
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	291.00	292.48	286.55
GENERAL FARM OVERHEAD	54.13	55.16	54.91
TAXES AND INSURANCE	18.68	18.78	18.55
CAPITAL REPLACEMENT	49.75	47.82	46.93
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	7.27	8.22	6.27
RETURN TO OTHER NONLAND CAPITAL 4/	17.03	16.29	16.13
NET LAND RENT 5/	125.29	111.74	93.85
UNPAID LABOR	20.72	21.65	22.70
TOTAL, ECONOMIC COSTS	583.87	572.14	545.89
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-1.72	-37.28	-75.46
TOTAL, RETURNS TO OWNED INPUTS 7/	168.59	120.62	63.49
HARVEST-PERIOD PRICE (DOLLARS/CWT.)	8.32	7.63	6.39
YIELD (CWT./PLANTED ACRE)	69.97	70.10	73.62

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTIVE ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 37--RICE PRODUCTION COSTS, DELTA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	353.60	378.15	423.14
TOTAL	353.60	378.15	423.14
CASH EXPENSES:			
SEED	28.27	28.63	28.63
FERTILIZER	29.87	31.33	29.70
CHEMICALS	33.14	33.14	33.14
CUSTOM OPERATIONS	30.49	30.66	30.66
FUEL, LUBE, AND ELECTRICITY	47.20	42.01	39.06
REPAIRS	18.66	18.87	18.52
HIRED LABOR	11.17	11.71	11.55
DRYING	30.24	32.52	32.52
TECHNICAL SERVICES	1.44	1.44	1.44
TOTAL, VARIABLE EXPENSES	228.48	230.31	225.22
GENERAL FARM OVERHEAD	16.41	16.37	16.30
TAXES AND INSURANCE	8.03	8.36	8.68
INTEREST	33.47	41.58	40.08
TOTAL, FIXED EXPENSES	57.91	66.31	65.06
TOTAL, CASH EXPENSES	286.39	296.62	290.28
RECEIPTS LESS CASH EXPENSES	67.21	81.53	132.86
CAPITAL REPLACEMENT	41.43	42.61	41.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	25.78	38.92	91.04
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	228.48	230.31	225.22
GENERAL FARM OVERHEAD	16.41	16.37	16.30
TAXES AND INSURANCE	8.03	8.36	8.68
CAPITAL REPLACEMENT	41.43	42.61	41.82
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	5.42	7.09	5.45
RETURN TO OTHER NONLAND CAPITAL 4/	15.40	15.47	15.33
NET LAND RENT 5/	48.93	54.81	64.18
UNPAID LABOR	19.03	19.95	19.66
TOTAL, ECONOMIC COSTS	383.13	394.97	396.64
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-29.53	-16.82	26.50
TOTAL, RETURNS TO OWNED INPUTS 7/	59.25	80.50	131.13
HARVEST-PERIOD PRICE (DOLLARS/CWT.)	8.86	8.54	8.49
YIELD (CWT./PLANTED ACRE)	39.91	44.28	49.84

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 38--RICE PRODUCTION COSTS, GULF COAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	363.62	367.22	400.18
TOTAL	363.62	367.22	400.18
CASH EXPENSES:			
SEED	24.74	26.80	24.08
FERTILIZER	39.59	41.45	39.68
CHEMICALS	27.07	26.78	25.81
CUSTOM OPERATIONS	30.33	30.64	29.87
FUEL, LUBE, AND ELECTRICITY	52.70	62.01	58.77
REPAIRS	24.77	25.77	24.99
HIRED LABOR	14.63	14.20	15.06
PURCHASED IRRIGATION WATER	15.40	15.68	15.61
DRYING	32.67	36.49	36.09
TECHNICAL SERVICES	1.39	1.41	1.31
TOTAL, VARIABLE EXPENSES	263.29	281.23	271.27
GENERAL FARM OVERHEAD	18.85	19.30	18.99
TAXES AND INSURANCE	9.98	10.26	10.57
INTEREST	42.30	44.64	42.83
TOTAL, FIXED EXPENSES	71.13	74.20	72.39
TOTAL, CASH EXPENSES	334.42	355.43	343.66
RECEIPTS LESS CASH EXPENSES	29.20	11.79	56.52
CAPITAL REPLACEMENT	56.13	58.99	57.46
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-26.93	-47.20	-.94
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	263.29	281.23	271.27
GENERAL FARM OVERHEAD	18.85	19.30	18.99
TAXES AND INSURANCE	9.98	10.26	10.57
CAPITAL REPLACEMENT	56.13	58.99	57.46
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	8.10	9.40	7.04
RETURN TO OTHER NONLAND CAPITAL 4/	19.40	19.96	19.67
NET LAND RENT 5/	43.73	37.42	49.36
UNPAID LABOR	24.90	24.19	25.64
TOTAL, ECONOMIC COSTS	444.38	460.75	460.00
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-80.76	-93.53	-59.82
TOTAL, RETURNS TO OWNED INPUTS 7/	15.37	-2.56	41.89
HARVEST-PERIOD PRICE (DOLLARS/CWT.)	8.98	8.23	8.35
YIELD (CWT./PLANTED ACRE)	40.48	44.61	47.93

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 39--U.S. SOYBEAN PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	204.46	166.72	162.72
TOTAL	204.46	166.72	162.72
CASH EXPENSES:			
SEED	7.98	10.08	8.74
FERTILIZER	7.58	7.70	6.84
LIME AND GYPSUM	1.16	1.15	1.12
CHEMICALS	19.18	18.35	17.47
CUSTOM OPERATIONS	3.84	3.85	3.86
FUEL, LUBE, AND ELECTRICITY	10.35	8.43	7.58
REPAIRS	6.63	6.64	6.49
HIRED LABOR	1.47	1.47	1.50
MISCELLANEOUS	.34	.35	.34
TECHNICAL SERVICES	.18	.16	.15
TOTAL, VARIABLE EXPENSES	58.71	58.18	54.10
GENERAL FARM OVERHEAD	10.43	10.81	10.91
TAXES AND INSURANCE	11.18	11.77	12.16
INTEREST	32.57	33.82	33.23
TOTAL, FIXED EXPENSES	54.18	56.40	56.30
TOTAL, CASH EXPENSES	112.89	114.58	110.40
RECEIPTS LESS CASH EXPENSES	91.57	52.14	52.32
CAPITAL REPLACEMENT	24.50	24.13	23.80
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	67.07	28.01	28.52
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	58.71	58.18	54.10
GENERAL FARM OVERHEAD	10.43	10.81	10.91
TAXES AND INSURANCE	11.18	11.77	12.16
CAPITAL REPLACEMENT	24.50	24.13	23.80
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.21	2.47	1.81
RETURN TO OTHER NONLAND CAPITAL 4/	8.22	8.08	8.06
NET LAND RENT 5/	63.46	52.99	48.80
UNPAID LABOR	9.82	9.84	10.07
TOTAL, ECONOMIC COSTS	188.53	178.27	169.71
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	15.93	-11.55	-6.99
TOTAL, RETURNS TO OWNED INPUTS 7/	99.64	61.83	61.75
HARVEST-PERIOD PRICE (DOLLARS/BU.)	7.95	6.05	4.86
YIELD (BU./PLANTED ACRE)	25.72	27.54	33.45

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 40--SOYBEAN PRODUCTION COSTS, DELTA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	158.68	154.29	122.50
TOTAL	158.68	154.29	122.50
CASH EXPENSES:			
SEED	7.67	10.78	10.00
FERTILIZER	4.92	5.83	5.29
LIME AND GYPSUM	.41	.43	.40
CHEMICALS	20.82	19.17	18.19
CUSTOM OPERATIONS	4.89	4.98	5.12
FUEL, LUBE, AND ELECTRICITY	11.01	8.82	8.01
REPAIRS	7.20	7.21	7.10
HIRED LABOR	1.58	1.56	1.54
MISCELLANEOUS	.86	.88	.87
TECHNICAL SERVICES	.44	.44	.41
TOTAL, VARIABLE EXPENSES	59.80	60.09	56.93
GENERAL FARM OVERHEAD	7.10	7.23	7.19
TAXES AND INSURANCE	4.69	4.99	5.18
INTEREST	14.48	18.36	17.69
TOTAL, FIXED EXPENSES	26.27	30.58	30.06
TOTAL, CASH EXPENSES	86.07	90.67	86.99
RECEIPTS LESS CASH EXPENSES	72.61	63.62	35.51
CAPITAL REPLACEMENT	22.56	23.30	22.84
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	50.05	40.32	12.67
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	59.80	60.09	56.93
GENERAL FARM OVERHEAD	7.10	7.23	7.19
TAXES AND INSURANCE	4.69	4.99	5.18
CAPITAL REPLACEMENT	22.56	23.30	22.84
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	2.39	2.82	2.09
RETURN TO OTHER NONLAND CAPITAL 4/	7.30	7.29	7.22
NET LAND RENT 5/	33.19	33.44	27.33
UNPAID LABOR	10.55	10.40	10.32
TOTAL, ECONOMIC COSTS	147.58	149.57	139.10
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	11.10	4.72	-16.60
TOTAL, RETURNS TO OWNED INPUTS 7/	64.53	58.68	30.36
HARVEST-PERIOD PRICE (DOLLARS/BU.)	7.86	6.20	5.01
YIELD (BU./PLANTED ACRE)	20.20	24.88	24.47

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 41--SOYBEAN PRODUCTION COSTS, LAKE STATES AND CORN BELT, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	239.93	183.28	183.15
TOTAL	239.93	183.28	183.15
CASH EXPENSES:			
SEED	8.54	10.09	8.75
FERTILIZER	6.20	6.90	6.13
LIME AND GYPSUM	.65	.65	.68
CHEMICALS	18.57	18.16	17.33
CUSTOM OPERATIONS	3.05	3.05	3.08
FUEL, LUBE, AND ELECTRICITY	10.04	8.15	7.25
REPAIRS	6.11	6.14	6.03
HIRED LABOR	1.40	1.41	1.46
MISCELLANEOUS	.27	.27	.27
TECHNICAL SERVICES	.11	.11	.10
TOTAL, VARIABLE EXPENSES	54.94	54.93	51.08
GENERAL FARM OVERHEAD	12.57	12.89	12.80
TAXES AND INSURANCE	14.81	15.39	15.41
INTEREST	41.22	42.23	40.68
TOTAL, FIXED EXPENSES	68.60	70.51	68.89
TOTAL, CASH EXPENSES	123.54	125.44	119.98
RECEIPTS LESS CASH EXPENSES	116.39	57.84	63.17
CAPITAL REPLACEMENT	26.81	25.85	25.35
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	89.58	31.99	37.82
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	54.94	54.93	51.08
GENERAL FARM OVERHEAD	12.57	12.89	12.80
TAXES AND INSURANCE	14.81	15.39	15.41
CAPITAL REPLACEMENT	26.81	25.85	25.35
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.97	2.21	1.63
RETURN TO OTHER NONLAND CAPITAL 4/	9.03	8.79	8.71
NET LAND RENT 5/	83.77	67.48	60.52
UNPAID LABOR	9.34	9.44	9.77
TOTAL, ECONOMIC COSTS	213.24	196.98	185.28
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	26.69	-13.70	-2.13
TOTAL, RETURNS TO OWNED INPUTS 7/	130.80	74.22	78.50
HARVEST-PERIOD PRICE (DOLLARS/BU.)	7.99	6.04	4.84
YIELD (BU./PLANTED ACRE)	30.01	30.33	37.88

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 42--SOYBEAN PRODUCTION COSTS, NORTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	185.69	125.65	151.45
TOTAL	185.69	125.65	151.45
CASH EXPENSES:			
SEED	6.11	8.97	7.43
FERTILIZER	3.26	2.68	2.50
LIME AND GYPSUM	.12	.12	.11
CHEMICALS	13.73	13.43	12.85
CUSTOM OPERATIONS	3.40	3.57	3.71
FUEL, LUBE, AND ELECTRICITY	9.87	8.60	8.13
REPAIRS	7.45	7.50	7.47
HIRED LABOR	1.42	1.51	1.58
MISCELLANEOUS	.04	.04	.04
TOTAL, VARIABLE EXPENSES	45.40	46.42	43.82
GENERAL FARM OVERHEAD	11.26	11.87	12.11
TAXES AND INSURANCE	11.20	11.73	12.43
INTEREST	32.57	31.92	31.53
TOTAL, FIXED EXPENSES	55.03	55.52	56.08
TOTAL, CASH EXPENSES	100.43	101.94	99.90
RECEIPTS LESS CASH EXPENSES	85.26	23.71	51.55
CAPITAL REPLACEMENT	20.44	20.57	20.45
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	64.82	3.14	31.10
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	45.40	46.42	43.82
GENERAL FARM OVERHEAD	11.26	11.87	12.11
TAXES AND INSURANCE	11.20	11.73	12.43
CAPITAL REPLACEMENT	20.44	20.57	20.45
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.59	1.84	1.37
RETURN TO OTHER NONLAND CAPITAL 4/	7.78	7.69	7.70
NET LAND RENT 5/	56.86	37.78	42.30
UNPAID LABOR	9.50	10.10	10.57
TOTAL, ECONOMIC COSTS	164.03	148.00	150.75
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	21.66	-22.35	.70
TOTAL, RETURNS TO OWNED INPUTS 7/	97.39	35.06	62.64
HARVEST-PERIOD PRICE (DOLLARS/BU.)	7.98	5.83	4.68
YIELD (BU./PLANTED ACRE)	23.27	21.56	32.38

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 43--SOYBEAN PRODUCTION COSTS, SOUTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	137.72	141.46	124.39
TOTAL	137.72	141.46	124.39
CASH EXPENSES:			
SEED	7.25	9.96	8.20
FERTILIZER	16.31	14.73	13.38
LIME AND GYPSUM	3.94	4.03	4.06
CHEMICALS	22.11	20.82	19.79
CUSTOM OPERATIONS	5.65	5.73	5.89
FUEL, LUBE, AND ELECTRICITY	10.96	8.98	8.22
REPAIRS	7.47	7.45	7.28
HIRED LABOR	1.62	1.59	1.60
MISCELLANEOUS	.21	.21	.21
TECHNICAL SERVICES	.24	.24	.23
TOTAL, VARIABLE EXPENSES	75.76	73.74	68.87
GENERAL FARM OVERHEAD	6.05	6.23	6.21
TAXES AND INSURANCE	5.10	5.27	5.55
INTEREST	20.45	19.38	18.78
TOTAL, FIXED EXPENSES	31.60	30.88	30.54
TOTAL, CASH EXPENSES	107.36	104.62	99.41
RECEIPTS LESS CASH EXPENSES	30.36	36.84	24.98
CAPITAL REPLACEMENT	20.43	20.72	20.27
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	9.93	16.12	4.71
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	75.76	73.74	68.87
GENERAL FARM OVERHEAD	6.05	6.23	6.21
TAXES AND INSURANCE	5.10	5.27	5.55
CAPITAL REPLACEMENT	20.43	20.72	20.27
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.11	3.39	2.50
RETURN TO OTHER NON-LAND CAPITAL 4/	6.58	6.52	6.44
NET LAND RENT 5/	27.03	27.88	25.36
UNPAID LABOR	10.88	10.63	10.74
TOTAL, ECONOMIC COSTS	154.94	154.38	145.94
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-17.22	-12.92	-21.55
TOTAL, RETURNS TO OWNED INPUTS 7/	30.38	35.50	23.49
HARVEST-PERIOD PRICE (DOLLARS/BU.)	7.79	6.07	5.04
YIELD (BU./PLANTED ACRE)	17.67	23.29	24.67

1/ TO ESTIMATE THE PRODUCTION COSTS FOR YOUR OPERATION, USE THE SAME PROCEDURE AND ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD PORTIONS OF CASH EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 44--U.S. SUNFLOWER PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	125.74	115.38	115.33
TOTAL	125.74	115.38	115.33
CASH EXPENSES:			
SEED	8.80	9.36	9.52
FERTILIZER	9.04	9.77	9.18
CHEMICALS	14.55	14.11	13.30
CUSTOM OPERATIONS	1.90	1.95	1.89
FUEL, LUBE, AND ELECTRICITY	8.62	6.98	6.37
REPAIRS	6.24	6.20	6.10
HIRED LABOR	.07	.07	.07
DRYING	2.30	1.95	1.96
MISCELLANEOUS	.01	.01	.01
TECHNICAL SERVICES	.38	.36	.36
TOTAL, VARIABLE EXPENSES	51.91	50.76	48.76
GENERAL FARM OVERHEAD	8.21	8.36	8.33
TAXES AND INSURANCE	5.92	6.00	6.22
INTEREST	23.60	22.64	21.87
TOTAL, FIXED EXPENSES	37.73	37.00	36.42
TOTAL, CASH EXPENSES	89.64	87.76	85.19
RECEIPTS LESS CASH EXPENSES	36.10	27.62	30.14
CAPITAL REPLACEMENT	19.86	19.70	19.17
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	16.24	7.92	10.97
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	51.91	50.76	48.76
GENERAL FARM OVERHEAD	8.21	8.36	8.33
TAXES AND INSURANCE	5.92	6.00	6.22
CAPITAL REPLACEMENT	19.86	19.70	19.17
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	1.67	1.87	1.42
RETURN TO OTHER NONLAND CAPITAL 4/	7.06	6.92	6.83
NET LAND RENT 5/	32.75	31.20	26.71
UNPAID LABOR	6.87	7.12	7.33
TOTAL, ECONOMIC COSTS	134.25	131.93	124.77
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-8.51	-16.55	-9.44
TOTAL, RETURNS TO OWNED INPUTS 7/	39.84	30.56	32.84
HARVEST-PERIOD PRICE (DOLLARS/CWT.)	12.23	11.59	11.25
YIELD (CWT./PLANTED ACRE)	10.28	9.95	10.26

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 45--U.S. PEANUT PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	562.79	707.78	620.74
SECONDARY CROP	17.22	18.68	18.59
TOTAL	580.01	726.46	639.33
CASH EXPENSES:			
SEED	62.41	74.09	59.61
FERTILIZER	19.20	20.50	18.70
LIME AND GYPSUM	14.35	14.64	14.34
CHEMICALS	89.00	84.55	79.63
CUSTOM OPERATIONS	7.10	7.36	7.52
FUEL, LUBE, AND ELECTRICITY	30.86	27.09	24.85
REPAIRS	19.84	19.80	19.54
HIRED LABOR	7.12	7.02	7.41
DRYING	33.04	39.88	39.22
MISCELLANEOUS	.20	.20	.20
TECHNICAL SERVICES	.84	.87	.86
TOTAL, VARIABLE EXPENSES	283.96	296.00	271.88
GENERAL FARM OVERHEAD	27.92	28.87	28.69
TAXES AND INSURANCE	10.54	10.41	11.01
INTEREST	97.80	73.91	71.31
TOTAL, FIXED EXPENSES	136.26	113.19	111.01
TOTAL, CASH EXPENSES	420.22	409.19	382.89
RECEIPTS LESS CASH EXPENSES	159.79	317.27	256.44
CAPITAL REPLACEMENT	49.85	49.52	48.73
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	109.94	267.75	207.71
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	283.96	296.00	271.88
GENERAL FARM OVERHEAD	27.92	28.87	28.69
TAXES AND INSURANCE	10.54	10.41	11.01
CAPITAL REPLACEMENT	49.85	49.52	48.73
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	9.56	11.05	7.88
RETURN TO OTHER NONLAND CAPITAL 4/	18.82	18.24	18.13
NET LAND RENT 5/	84.63	92.37	84.97
UNPAID LABOR	23.85	23.50	24.79
TOTAL, ECONOMIC COSTS	509.13	529.96	496.08
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	70.88	196.50	143.25
TOTAL, RETURNS TO OWNED INPUTS 7/	207.74	341.66	279.02
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.24	.25	.22
YIELD (LBS./PLANTED ACRE)	2,350.15	2,827.78	2,769.61

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 46--PEANUT PRODUCTION COSTS, SOUTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	632.08	782.24	661.12
SECONDARY CROP	17.91	17.82	17.79
TOTAL	649.99	800.06	678.91
CASH EXPENSES:			
SEED	65.37	77.29	61.55
FERTILIZER	22.04	23.17	21.10
LIME AND GYPSUM	17.04	17.42	17.32
CHEMICALS	106.60	99.14	94.58
CUSTOM OPERATIONS	6.21	6.27	6.32
FUEL, LUBE, AND ELECTRICITY	27.66	22.50	19.39
REPAIRS	18.47	18.08	17.75
HIRED LABOR	6.55	6.39	6.57
DRYING	35.30	41.93	40.78
MISCELLANEOUS	.27	.27	.27
TECHNICAL SERVICES	1.17	1.17	1.17
TOTAL, VARIABLE EXPENSES	306.68	313.63	286.80
GENERAL FARM OVERHEAD	27.67	28.14	28.02
TAXES AND INSURANCE	10.24	9.91	10.52
INTEREST	112.39	65.56	63.21
TOTAL, FIXED EXPENSES	150.30	103.61	101.75
TOTAL, CASH EXPENSES	456.98	417.24	388.56
RECEIPTS LESS CASH EXPENSES	193.01	382.82	290.35
CAPITAL REPLACEMENT	48.16	46.66	45.81
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	144.85	336.16	244.54
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	306.68	313.63	286.80
GENERAL FARM OVERHEAD	27.67	28.14	28.02
TAXES AND INSURANCE	10.24	9.91	10.52
CAPITAL REPLACEMENT	48.16	46.66	45.81
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	10.80	12.25	8.75
RETURN TO OTHER NONLAND CAPITAL 4/	17.83	16.88	16.73
NET LAND RENT 5/	89.73	88.24	79.50
UNPAID LABOR	21.92	21.39	22.00
TOTAL, ECONOMIC COSTS	533.03	537.10	498.14
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	116.96	262.96	180.77
TOTAL, RETURNS TO OWNED INPUTS 7/	257.24	401.72	307.75
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.23	.24	.21
YIELD (LBS./PLANTED ACRE)	2,702.82	3,219.14	3,124.94

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 47--PEANUT PRODUCTION COSTS, SOUTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	417.50	456.70	465.83
SECONDARY CROP	17.98	24.89	24.20
TOTAL	435.48	481.59	490.03
CASH EXPENSES:			
SEED	44.50	52.81	42.87
FERTILIZER	19.61	21.22	20.02
LIME AND GYPSUM	.60	.51	.51
CHEMICALS	36.51	35.76	33.69
CUSTOM OPERATIONS	7.44	8.54	8.86
FUEL, LUBE, AND ELECTRICITY	42.27	45.27	43.27
REPAIRS	25.18	26.64	26.06
HIRED LABOR	8.47	8.73	9.54
DRYING	18.38	18.06	19.27
MISCELLANEOUS	.01	.01	.01
TECHNICAL SERVICES	.58	.64	.64
TOTAL, VARIABLE EXPENSES	203.55	218.19	204.74
GENERAL FARM OVERHEAD	21.57	24.06	23.78
TAXES AND INSURANCE	9.43	9.96	10.39
INTEREST	51.69	51.38	49.17
TOTAL, FIXED EXPENSES	82.69	85.40	83.35
TOTAL, CASH EXPENSES	286.24	303.59	288.08
RECEIPTS LESS CASH EXPENSES	149.24	178.00	201.95
CAPITAL REPLACEMENT	51.35	54.57	53.30
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	97.89	123.43	148.65
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	203.55	218.19	204.74
GENERAL FARM OVERHEAD	21.57	24.06	23.78
TAXES AND INSURANCE	9.43	9.96	10.39
CAPITAL REPLACEMENT	51.35	54.57	53.30
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	5.88	7.08	5.18
RETURN TO OTHER NONLAND CAPITAL 4/	19.43	20.02	19.77
NET LAND RENT 5/	73.18	80.35	81.52
UNPAID LABOR	28.35	29.23	31.93
TOTAL, ECONOMIC COSTS	412.74	443.46	430.61
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	22.74	38.13	59.42
TOTAL, RETURNS TO OWNED INPUTS 7/	149.58	174.81	197.82
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.25	.27	.26
YIELD (LBS./PLANTED ACRE)	1,668.16	1,704.12	1,798.58

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 48--PEANUT PRODUCTION COSTS, VIRGINIA AND NORTH CAROLINA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	525.40	754.40	686.84
SECONDARY CROP	13.93	13.89	13.87
TOTAL	539.33	768.29	700.71
CASH EXPENSES:			
SEED	76.19	89.64	75.22
FERTILIZER	9.25	9.62	8.50
LIME AND GYPSUM	23.56	22.49	22.42
CHEMICALS	100.01	93.11	88.76
CUSTOM OPERATIONS	9.63	9.81	9.94
FUEL, LUBE, AND ELECTRICITY	26.41	20.69	19.30
REPAIRS	17.36	17.37	17.09
HIRED LABOR	7.25	7.16	7.47
DRYING	44.87	60.36	60.49
MISCELLANEOUS	.22	.22	.22
TECHNICAL SERVICES	.13	.13	.13
TOTAL, VARIABLE EXPENSES	314.88	330.61	309.55
GENERAL FARM OVERHEAD	37.06	37.76	37.59
TAXES AND INSURANCE	12.98	12.87	13.57
INTEREST	110.26	134.05	129.23
TOTAL, FIXED EXPENSES	160.30	184.68	180.39
TOTAL, CASH EXPENSES	475.18	515.29	489.94
RECEIPTS LESS CASH EXPENSES	64.15	253.00	210.77
CAPITAL REPLACEMENT	53.45	53.67	52.83
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	10.70	199.33	157.94
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	314.88	330.61	309.55
GENERAL FARM OVERHEAD	37.06	37.76	37.59
TAXES AND INSURANCE	12.98	12.87	13.57
CAPITAL REPLACEMENT	53.45	53.67	52.83
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	10.30	11.68	8.46
RETURN TO OTHER NONLAND CAPITAL 4/	21.26	21.00	20.87
NET LAND RENT 5/	82.86	123.20	108.75
UNPAID LABOR	24.26	23.99	25.02
TOTAL, ECONOMIC COSTS	557.05	614.77	576.63
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-17.72	153.52	124.08
TOTAL, RETURNS TO OWNED INPUTS 7/	120.96	333.38	287.17
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.25	.27	.24
YIELD (LBS./PLANTED ACRE)	2,084.35	2,820.20	2,826.51

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 49--U.S. FLAX PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	79.01	72.62	67.24
SECONDARY CROP	7.17	6.87	6.80
TOTAL	86.18	79.49	74.04
CASH EXPENSES:			
SEED	5.76	7.09	6.14
FERTILIZER	3.85	3.96	3.75
CHEMICALS	4.42	4.28	4.15
CUSTOM OPERATIONS	1.21	1.10	1.02
FUEL, LUBE, AND ELECTRICITY	9.21	7.55	6.97
REPAIRS	7.71	7.79	7.53
HIRED LABOR	.10	.10	.10
MISCELLANEOUS	.63	.64	.64
TECHNICAL SERVICES	.09	.09	.09
TOTAL, VARIABLE EXPENSES	32.98	32.60	30.39
GENERAL FARM OVERHEAD	4.89	4.98	4.95
TAXES AND INSURANCE	6.93	6.93	7.06
INTEREST	14.03	13.50	12.99
TOTAL, FIXED EXPENSES	25.85	25.41	25.00
TOTAL, CASH EXPENSES	58.83	58.01	55.39
RECEIPTS LESS CASH EXPENSES	27.35	21.48	18.65
CAPITAL REPLACEMENT	22.28	22.14	21.29
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	5.07	-.66	-2.64
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	32.98	32.60	30.39
GENERAL FARM OVERHEAD	4.89	4.98	4.95
TAXES AND INSURANCE	6.93	6.93	7.06
CAPITAL REPLACEMENT	22.28	22.14	21.29
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	.84	.94	.71
RETURN TO OTHER NONLAND CAPITAL 4/	8.61	8.48	8.25
NET LAND RENT 5/	21.55	20.46	16.69
UNPAID LABOR	9.57	10.00	10.07
TOTAL, ECONOMIC COSTS	107.65	106.53	99.41
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-21.47	-27.04	-25.37
TOTAL, RETURNS TO OWNED INPUTS 7/	19.10	12.84	10.35
HARVEST-PERIOD PRICE (DOLLARS/BU.)	6.87	5.74	5.03
YIELD (BU./PLANTED ACRE)	11.51	12.65	13.37

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 50--U.S. COTTON PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	312.23	318.77	327.85
SECONDARY CROP	64.82	46.48	31.60
TOTAL	377.05	365.25	359.45
CASH EXPENSES:			
SEED	8.35	8.96	8.79
FERTILIZER	21.25	24.28	23.31
LIME AND GYPSUM	1.11	1.17	1.20
CHEMICALS	48.88	46.73	45.18
CUSTOM OPERATIONS	15.46	15.74	16.34
FUEL, LUBE, AND ELECTRICITY	32.72	29.42	27.55
REPAIRS	19.70	20.02	19.53
HIRED LABOR	11.15	11.09	11.69
PURCHASED IRRIGATION WATER	6.26	6.37	6.35
GINNING	44.95	54.48	57.35
MISCELLANEOUS	1.31	1.33	1.33
TECHNICAL SERVICES	1.65	1.70	1.71
TOTAL, VARIABLE EXPENSES	212.79	221.30	220.33
GENERAL FARM OVERHEAD	23.23	24.28	23.67
TAXES AND INSURANCE	9.30	9.87	10.02
INTEREST	54.76	55.27	52.10
TOTAL, FIXED EXPENSES	87.29	89.42	85.80
TOTAL, CASH EXPENSES	300.08	310.72	306.12
RECEIPTS LESS CASH EXPENSES	76.97	54.53	53.33
CAPITAL REPLACEMENT	44.88	45.53	44.47
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	32.09	9.00	8.86
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	212.79	221.30	220.33
GENERAL FARM OVERHEAD	23.23	24.28	23.67
TAXES AND INSURANCE	9.30	9.87	10.02
CAPITAL REPLACEMENT	44.88	45.53	44.47
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	5.80	6.57	5.05
RETURN TO OTHER NONLAND CAPITAL 4/	14.93	14.94	14.73
NET LAND RENT 5/	62.84	60.45	57.87
UNPAID LABOR	21.64	21.53	22.70
TOTAL, ECONOMIC COSTS	395.41	404.47	398.84
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-18.36	-39.22	-39.39
TOTAL, RETURNS TO OWNED INPUTS 7/	86.85	64.27	60.96
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.660	.570	.550
YIELD (LBS./PLANTED ACRE)	470.40	554.65	591.07

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 51--COTTON PRODUCTION COSTS, DELTA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	359.38	378.68	364.62
SECONDARY CROP	70.01	43.97	27.48
TOTAL	429.39	422.65	392.10
CASH EXPENSES:			
SEED	6.29	8.58	7.98
FERTILIZER	30.30	34.60	32.81
LIME AND GYPSUM	1.86	1.85	1.81
CHEMICALS	80.71	75.48	72.27
CUSTOM OPERATIONS	9.57	9.62	9.71
FUEL, LUBE, AND ELECTRICITY	23.07	18.90	16.40
REPAIRS	21.72	22.32	21.90
HIRED LABOR	9.08	9.21	9.10
GINNING	43.18	57.08	55.55
MISCELLANEOUS	2.49	2.54	2.52
TECHNICAL SERVICES	2.87	2.87	2.88
TOTAL, VARIABLE EXPENSES	231.14	243.05	232.93
GENERAL FARM OVERHEAD	23.23	23.67	23.60
TAXES AND INSURANCE	9.02	9.42	9.80
INTEREST	51.30	63.68	61.44
TOTAL, FIXED EXPENSES	83.55	96.77	94.85
TOTAL, CASH EXPENSES	314.69	339.82	327.78
RECEIPTS LESS CASH EXPENSES	114.70	82.83	64.32
CAPITAL REPLACEMENT	53.83	54.14	53.03
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	60.87	28.69	11.29
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	231.14	243.05	232.93
GENERAL FARM OVERHEAD	23.23	23.67	23.60
TAXES AND INSURANCE	9.02	9.42	9.80
CAPITAL REPLACEMENT	53.83	54.14	53.03
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	5.33	6.35	4.76
RETURN TO OTHER NONLAND CAPITAL 4/	17.22	17.28	17.09
NET LAND RENT 5/	60.50	63.00	57.52
UNPAID LABOR	17.62	17.89	17.65
TOTAL, ECONOMIC COSTS	417.89	434.79	416.39
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	11.50	-12.14	-24.29
TOTAL, RETURNS TO OWNED INPUTS 7/	112.17	92.37	72.74
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.660	.550	.540
YIELD (LBS./PLANTED ACRE)	541.26	690.95	671.10

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 52--COTTON PRODUCTION COSTS, SOUTHEAST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	269.57	412.84	389.37
SECONDARY CROP	52.97	49.64	29.56
TOTAL	322.54	462.48	418.93
CASH EXPENSES:			
SEED	5.52	6.96	6.48
FERTILIZER	40.73	41.99	38.45
LIME AND GYPSUM	6.82	6.74	6.43
CHEMICALS	105.12	97.45	96.04
CUSTOM OPERATIONS	11.55	11.90	11.60
FUEL, LUBE, AND ELECTRICITY	21.30	18.87	16.09
REPAIRS	19.10	20.32	19.96
HIRED LABOR	7.53	7.43	7.61
GINNING	33.39	62.18	62.00
MISCELLANEOUS	1.83	1.86	1.86
TECHNICAL SERVICES	2.72	2.72	2.76
TOTAL, VARIABLE EXPENSES	255.61	278.42	269.27
GENERAL FARM OVERHEAD	17.40	17.79	17.36
TAXES AND INSURANCE	9.38	9.86	10.52
INTEREST	67.61	45.30	42.04
TOTAL, FIXED EXPENSES	94.39	72.95	69.92
TOTAL, CASH EXPENSES	350.00	351.37	339.20
RECEIPTS LESS CASH EXPENSES	-27.46	111.11	79.73
CAPITAL REPLACEMENT	53.82	56.18	55.37
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-81.28	54.93	24.36
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	255.61	278.42	269.27
GENERAL FARM OVERHEAD	17.40	17.79	17.36
TAXES AND INSURANCE	9.38	9.86	10.52
CAPITAL REPLACEMENT	53.82	56.18	55.37
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	6.99	7.55	5.67
RETURN TO OTHER NONLAND CAPITAL 4/	17.79	18.41	18.35
NET LAND RENT 5/	47.88	55.39	49.33
UNPAID LABOR	14.61	14.41	14.77
TOTAL, ECONOMIC COSTS	423.48	458.01	440.65
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-100.94	4.47	-21.72
TOTAL, RETURNS TO OWNED INPUTS 7/	-13.67	100.23	66.41
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.670	.580	.550
YIELD (LBS./PLANTED ACRE)	400.00	713.34	712.22

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 53--COTTON PRODUCTION COSTS, SOUTHERN PLAINS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	172.93	169.33	192.00
SECONDARY CROP	41.39	29.27	19.47
TOTAL	214.32	198.60	211.47
CASH EXPENSES:			
SEED	9.25	9.57	9.55
FERTILIZER	8.56	9.93	9.73
CHEMICALS	24.14	22.31	21.34
CUSTOM OPERATIONS	7.35	7.33	9.00
FUEL, LUBE, AND ELECTRICITY	26.14	24.72	23.35
REPAIRS	16.14	16.47	16.17
HIRED LABOR	8.65	8.49	9.64
PURCHASED IRRIGATION WATER	1.39	1.42	1.41
GINNING	29.95	35.68	39.66
TECHNICAL SERVICES	.57	.55	.55
TOTAL, VARIABLE EXPENSES	132.14	136.47	140.40
GENERAL FARM OVERHEAD	9.03	9.11	9.05
TAXES AND INSURANCE	6.25	6.30	6.58
INTEREST	21.75	19.70	18.89
TOTAL, FIXED EXPENSES	37.03	35.11	34.52
TOTAL, CASH EXPENSES	169.17	171.58	174.92
RECEIPTS LESS CASH EXPENSES	45.15	27.02	36.55
CAPITAL REPLACEMENT	32.57	33.36	32.75
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	12.58	-6.34	3.80
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	132.14	136.47	140.40
GENERAL FARM OVERHEAD	9.03	9.11	9.05
TAXES AND INSURANCE	6.25	6.30	6.58
CAPITAL REPLACEMENT	32.57	33.36	32.75
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	3.87	4.29	3.38
RETURN TO OTHER NONLAND CAPITAL 4/	11.07	11.11	11.01
NET LAND RENT 5/	38.89	34.74	37.30
UNPAID LABOR	16.79	16.48	18.72
TOTAL, ECONOMIC COSTS	250.61	251.86	259.19
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-36.29	-53.26	-47.72
TOTAL, RETURNS TO OWNED INPUTS 7/	34.33	13.36	22.69
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.600	.520	.530
YIELD (LBS./PLANTED ACRE)	287.70	322.74	359.34

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 54--COTTON PRODUCTION COSTS, SOUTHWEST, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	742.88	678.84	708.57
SECONDARY CROP	142.72	104.73	80.80
TOTAL	885.60	783.57	789.37
CASH EXPENSES:			
SEED	9.13	8.34	8.57
FERTILIZER	45.40	48.94	47.98
LIME AND GYPSUM	1.78	1.86	1.90
CHEMICALS	69.91	64.13	60.52
CUSTOM OPERATIONS	52.91	53.48	54.18
FUEL, LUBE, AND ELECTRICITY	72.75	64.16	64.98
REPAIRS	29.43	28.01	27.18
HIRED LABOR	23.92	23.70	24.77
PURCHASED IRRIGATION WATER	33.89	34.51	34.35
GINNING	103.26	108.66	118.83
MISCELLANEOUS	4.00	4.07	4.05
TECHNICAL SERVICES	3.33	3.33	3.33
TOTAL, VARIABLE EXPENSES	449.71	443.19	450.64
GENERAL FARM OVERHEAD	74.27	76.81	77.16
TAXES AND INSURANCE	20.18	22.13	21.96
INTEREST	168.45	161.91	156.55
TOTAL, FIXED EXPENSES	262.90	260.85	255.68
TOTAL, CASH EXPENSES	712.61	704.04	706.32
RECEIPTS LESS CASH EXPENSES	172.99	79.53	83.05
CAPITAL REPLACEMENT	71.74	68.25	66.22
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	101.25	11.28	16.83
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	449.71	443.19	450.64
GENERAL FARM OVERHEAD	74.27	76.81	77.16
TAXES AND INSURANCE	20.18	22.13	21.96
CAPITAL REPLACEMENT	71.74	68.25	66.22
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	12.63	13.90	10.94
RETURN TO OTHER NONLAND CAPITAL 4/	24.06	22.60	22.11
NET LAND RENT 5/	154.00	141.91	133.31
UNPAID LABOR	46.43	45.99	48.07
TOTAL, ECONOMIC COSTS	853.02	834.78	830.42
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	32.58	-51.21	-41.05
TOTAL, RETURNS TO OWNED INPUTS 7/	269.70	173.20	173.38
HARVEST-PERIOD PRICE (DOLLARS/LB.)	.720	.650	.590
YIELD (LBS./PLANTED ACRE)	1028.17	1044.56	1205.64

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 55--U.S. SUGAR-BEET PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	718.17	667.15	689.00
SECONDARY CROP	3.16	2.66	2.18
TOTAL	721.33	669.81	691.18
CASH EXPENSES:			
SEED	18.89	21.44	22.42
FERTILIZER	54.99	49.83	48.05
CHEMICALS	55.64	44.44	44.57
CUSTOM OPERATIONS	35.37	41.11	40.89
FUEL AND LUBRICATION	45.35	42.48	40.31
REPAIRS	33.79	34.48	33.52
HIRED LABOR	55.75	46.35	46.81
PURCHASED IRRIGATION WATER	11.10	11.26	11.23
MISCELLANEOUS	2.66	2.87	3.54
TOTAL, VARIABLE EXPENSES	313.54	294.26	291.34
GENERAL FARM OVERHEAD	50.85	41.71	43.59
TAXES AND INSURANCE	18.33	19.95	20.14
INTEREST	57.73	82.69	82.52
TOTAL, FIXED EXPENSES	126.91	144.35	146.25
TOTAL, CASH EXPENSES	440.45	438.61	437.59
RECEIPTS LESS CASH EXPENSES	280.88	231.20	253.59
CAPITAL REPLACEMENT	56.75	59.11	57.39
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	224.13	172.09	196.20
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	313.54	294.26	291.34
GENERAL FARM OVERHEAD	50.85	41.71	43.59
TAXES AND INSURANCE	18.33	19.95	20.14
CAPITAL REPLACEMENT	56.75	59.11	57.39
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	13.85	15.05	12.44
RETURN TO OTHER NONLAND CAPITAL 4/	23.48	23.87	23.43
NET LAND RENT 5/	92.97	93.27	97.46
UNPAID LABOR	35.62	44.84	45.89
TOTAL, ECONOMIC COSTS	605.39	592.06	591.68
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	115.94	77.75	99.50
TOTAL, RETURNS TO OWNED INPUTS 7/	281.86	254.78	278.72
PRICE (DOLLARS/TON)	37.00	33.90	34.45
YIELD (NET TONS/PLANTED ACRE)	19.41	19.68	20.00

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 56--SUGAR-BEET PRODUCTION COSTS, MICHIGAN AND OHIO, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	660.96	628.03	565.20
TOTAL	660.96	628.03	565.20
CASH EXPENSES:			
SEED	12.98	11.45	13.40
FERTILIZER	73.96	79.84	72.05
CHEMICALS	35.17	35.84	35.84
CUSTOM OPERATIONS	41.16	42.70	43.14
FUEL AND LUBRICATION	24.71	20.73	19.73
REPAIRS	26.01	26.63	26.13
HIRED LABOR	18.60	12.93	13.07
MISCELLANEOUS	2.30	2.30	2.30
TOTAL, VARIABLE EXPENSES	234.89	232.42	225.66
GENERAL FARM OVERHEAD	67.81	40.70	36.46
TAXES AND INSURANCE	29.40	32.36	33.32
INTEREST	23.20	101.62	88.17
TOTAL, FIXED EXPENSES	120.41	174.68	157.95
TOTAL, CASH EXPENSES	355.30	407.10	383.61
RECEIPTS LESS CASH EXPENSES	305.66	220.93	181.59
CAPITAL REPLACEMENT	40.61	43.07	42.27
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	265.05	177.86	139.32
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	234.89	232.42	225.66
GENERAL FARM OVERHEAD	67.81	40.70	36.46
TAXES AND INSURANCE	29.40	32.36	33.32
CAPITAL REPLACEMENT	40.61	43.07	42.27
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	10.24	11.81	9.80
RETURN TO OTHER NONLAND CAPITAL 4/	17.51	18.03	17.86
NET LAND RENT 5/	78.53	79.09	76.22
UNPAID LABOR	25.59	27.47	27.77
TOTAL, ECONOMIC COSTS	504.58	484.95	469.36
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	156.38	143.08	95.84
TOTAL, RETURNS TO OWNED INPUTS 7/	288.25	279.48	227.49
PRICE (DOLLARS/PER TON)	36.00	32.95	30.00
YIELD (NET TONS/PLANTED ACRE)	18.36	19.06	18.84

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 57--SUGAR-BEET PRODUCTION COSTS, MINNESOTA AND NORTH DAKOTA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	615.61	587.52	630.30
TOTAL	615.61	587.52	630.30
CASH EXPENSES:			
SEED	21.60	22.30	23.85
FERTILIZER	35.68	32.72	29.42
CHEMICALS	48.49	53.19	53.19
CUSTOM OPERATIONS	9.24	9.18	9.26
FUEL AND LUBRICATION	26.86	22.25	20.48
REPAIRS	30.94	31.75	31.16
HIRED LABOR	33.77	27.47	27.87
MISCELLANEOUS	.43	.25	.25
TOTAL, VARIABLE EXPENSES	207.01	199.11	195.48
GENERAL FARM OVERHEAD	51.71	34.78	37.12
TAXES AND INSURANCE	14.95	15.82	15.96
INTEREST	45.99	78.14	80.80
TOTAL, FIXED EXPENSES	112.65	128.74	133.88
TOTAL, CASH EXPENSES	319.66	327.85	329.36
RECEIPTS LESS CASH EXPENSES	295.95	259.67	300.94
CAPITAL REPLACEMENT	54.02	58.17	57.09
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	241.93	201.50	243.85
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	207.01	199.11	195.48
GENERAL FARM OVERHEAD	51.71	34.78	37.12
TAXES AND INSURANCE	14.95	15.82	15.96
CAPITAL REPLACEMENT	54.02	58.17	57.09
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	8.67	9.56	7.86
RETURN TO OTHER NONLAND CAPITAL 4/	23.53	24.31	24.08
NET LAND RENT 5/	58.86	73.92	75.42
UNPAID LABOR	22.45	29.75	30.20
TOTAL, ECONOMIC COSTS	441.20	445.42	443.21
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	174.41	142.10	187.09
TOTAL, RETURNS TO OWNED INPUTS 7/	287.92	279.64	324.65
PRICE (DOLLARS/TON)	35.40	36.00	35.55
YIELD (NET TONS/PLANTED ACRE)	17.39	16.32	17.73

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 58--SUGAR-BEET PRODUCTION COSTS, KANSAS, COLORADO, NEBRASKA, AND SOUTHEASTERN WYOMING, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	527.94	459.01	655.70
SECONDARY CROP	7.53	6.74	5.39
TOTAL	535.47	465.75	661.09
CASH EXPENSES:			
SEED	19.09	23.29	29.11
FERTILIZER	43.64	40.92	38.46
CHEMICALS	44.69	26.22	25.75
CUSTOM OPERATIONS	15.02	17.06	16.70
FUEL AND LUBRICATION	59.07	53.51	51.45
REPAIRS	36.44	38.48	38.21
HIRED LABOR	71.13	53.38	53.88
PURCHASED IRRIGATION WATER	7.51	7.65	8.18
MISCELLANEOUS	.89	1.10	1.15
TOTAL, VARIABLE EXPENSES	297.48	261.61	262.89
GENERAL FARM OVERHEAD	30.15	24.96	35.36
TAXES AND INSURANCE	21.35	22.78	24.25
INTEREST	68.27	63.20	86.62
TOTAL, FIXED EXPENSES	119.77	110.94	146.23
TOTAL, CASH EXPENSES	417.25	372.55	409.12
RECEIPTS LESS CASH EXPENSES	118.22	93.20	251.97
CAPITAL REPLACEMENT	63.01	65.89	65.11
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	55.21	27.31	186.86
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	297.48	261.61	262.89
GENERAL FARM OVERHEAD	30.15	24.96	35.36
TAXES AND INSURANCE	21.35	22.78	24.25
CAPITAL REPLACEMENT	63.01	65.89	65.11
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	12.36	13.35	11.16
RETURN TO OTHER NONLAND CAPITAL 4/	25.05	26.25	26.17
NET LAND RENT 5/	79.82	64.65	110.89
UNPAID LABOR	48.30	70.75	71.42
TOTAL, ECONOMIC COSTS	577.52	550.24	607.25
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-42.05	-84.49	53.84
TOTAL, RETURNS TO OWNED INPUTS 7/	123.48	90.51	273.48
PRICE (DOLLARS/TON)	32.29	23.30	31.60
YIELD (NET TONS/PLANTED ACRE)	16.35	19.70	20.75

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 59--SUGAR-BEET PRODUCTION COSTS, TEXAS AND NEW MEXICO, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	656.17	698.53	656.49
SECONDARY CROP	14.10	12.62	10.11
TOTAL	670.27	711.15	666.60
CASH EXPENSES:			
SEED	12.70	23.68	23.68
FERTILIZER	27.58	28.86	27.96
CHEMICALS	113.56	106.01	101.13
CUSTOM OPERATIONS	67.17	79.72	80.51
FUEL AND LUBRICATION	87.32	112.95	110.97
REPAIRS	48.54	49.12	48.20
HIRED LABOR	43.97	42.61	48.94
TOTAL, VARIABLE EXPENSES	400.84	442.95	441.39
GENERAL FARM OVERHEAD	29.42	56.39	52.79
TAXES AND INSURANCE	10.40	10.56	11.03
INTEREST	48.19	119.97	108.80
TOTAL, FIXED EXPENSES	88.01	186.92	172.62
TOTAL, CASH EXPENSES	488.85	629.87	614.01
RECEIPTS LESS CASH EXPENSES	181.42	81.28	52.59
CAPITAL REPLACEMENT	61.30	62.59	61.42
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	120.12	18.69	-8.83
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	400.84	442.95	441.39
GENERAL FARM OVERHEAD	29.42	56.39	52.79
TAXES AND INSURANCE	10.40	10.56	11.03
CAPITAL REPLACEMENT	61.30	62.59	61.42
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	17.71	21.72	18.18
RETURN TO OTHER NONLAND CAPITAL 4/	22.15	22.31	22.09
NET LAND RENT 5/	72.61	76.52	68.95
UNPAID LABOR	42.56	41.25	47.37
TOTAL, ECONOMIC COSTS	656.99	734.29	723.22
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	13.28	-23.14	-56.62
TOTAL, RETURNS TO OWNED INPUTS 7/	168.31	138.66	99.97
PRICE (DOLLARS/TON)	35.70	33.20	29.80
YIELD (NET TONS/PLANTED ACRE)	18.38	21.04	22.03

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 60--SUGAR-BEET PRODUCTION COSTS, MONTANA, NORTHWESTERN WYOMING, AND SOUTHWESTERN NORTH DAKOTA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	713.70	628.70	722.30
SECONDARY CROP	17.29	15.48	12.39
TOTAL	730.99	644.18	734.69
CASH EXPENSES:			
SEED	20.43	36.96	28.46
FERTILIZER	73.79	59.50	59.86
CHEMICALS	35.13	28.86	28.86
CUSTOM OPERATIONS	6.78	6.80	6.87
FUEL AND LUBRICATION	37.41	30.44	27.75
REPAIRS	34.27	33.59	32.96
HIRED LABOR	96.60	49.38	51.48
PURCHASED IRRIGATION WATER	22.04	13.56	13.56
MISCELLANEOUS	14.74	22.03	22.01
TOTAL, VARIABLE EXPENSES	341.19	281.12	271.81
GENERAL FARM OVERHEAD	32.97	51.02	58.14
TAXES AND INSURANCE	14.30	14.92	15.70
INTEREST	56.72	73.44	81.08
TOTAL, FIXED EXPENSES	103.99	139.38	154.92
TOTAL, CASH EXPENSES	445.18	420.50	426.73
RECEIPTS LESS CASH EXPENSES	285.81	223.68	307.96
CAPITAL REPLACEMENT	56.49	55.94	54.90
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	229.32	167.74	253.06
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	341.19	281.12	271.81
GENERAL FARM OVERHEAD	32.97	51.02	58.14
TAXES AND INSURANCE	14.30	14.92	15.70
CAPITAL REPLACEMENT	56.49	55.94	54.90
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	13.56	14.23	11.65
RETURN TO OTHER NONLAND CAPITAL 4/	23.03	22.51	22.30
NET LAND RENT 5/	106.36	106.24	123.96
UNPAID LABOR	41.02	71.06	74.09
TOTAL, ECONOMIC COSTS	628.92	617.04	632.55
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	102.07	27.14	102.14
TOTAL, RETURNS TO OWNED INPUTS 7/	286.04	241.18	334.14
PRICE (DOLLARS/TON)	36.21	35.40	37.60
YIELD (NET TONS/PLANTED ACRE)	19.71	17.76	19.21

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 61--SUGAR-BEET PRODUCTION COSTS, EASTERN IDAHO, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	885.74	762.40	737.57
SECONDARY CROP	1.38	1.23	.99
TOTAL	887.12	763.63	738.56
CASH EXPENSES:			
SEED	17.50	21.55	21.55
FERTILIZER	76.51	66.85	65.43
CHEMICALS	38.59	13.49	13.49
CUSTOM OPERATIONS	22.27	23.06	23.29
FUEL AND LUBRICATION	86.87	83.74	81.63
REPAIRS	45.30	45.23	44.39
HIRED LABOR	69.46	13.88	15.36
PURCHASED IRRIGATION WATER	15.50	15.78	15.78
MISCELLANEOUS	2.60	2.66	2.66
TOTAL, VARIABLE EXPENSES	374.60	286.24	283.58
GENERAL FARM OVERHEAD	66.71	60.48	58.22
TAXES AND INSURANCE	16.20	16.70	17.64
INTEREST	48.88	67.73	63.17
TOTAL, FIXED EXPENSES	131.79	144.91	139.03
TOTAL, CASH EXPENSES	506.39	431.15	422.61
RECEIPTS LESS CASH EXPENSES	380.73	332.48	315.95
CAPITAL REPLACEMENT	73.07	73.16	71.80
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	307.66	259.32	244.15
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	374.60	286.24	283.58
GENERAL FARM OVERHEAD	66.71	60.48	58.22
TAXES AND INSURANCE	16.20	16.70	17.64
CAPITAL REPLACEMENT	73.07	73.16	71.80
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	13.96	13.78	11.42
RETURN TO OTHER NONLAND CAPITAL 4/	28.67	28.44	28.17
NET LAND RENT 5/	95.99	71.85	68.28
UNPAID LABOR	39.11	78.64	87.05
TOTAL, ECONOMIC COSTS	708.31	629.29	626.16
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	178.81	134.34	112.40
TOTAL, RETURNS TO OWNED INPUTS 7/	356.54	327.05	307.32
PRICE (DOLLARS/TON)	40.50	37.10	36.75
YIELD (NET TONS/PLANTED ACRE)	21.87	20.55	20.07

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 62--SUGAR-BEET PRODUCTION COSTS, WESTERN IDAHO AND OREGON, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	1,110.67	952.02	939.96
SECONDARY CROP	.88	.79	.63
TOTAL	1,111.55	952.81	940.59
CASH EXPENSES:			
SEED	27.50	27.17	27.17
FERTILIZER	97.71	101.59	97.82
CHEMICALS	60.06	61.07	61.07
CUSTOM OPERATIONS	34.31	33.99	34.32
FUEL AND LUBRICATION	45.16	37.99	36.57
REPAIRS	36.29	35.41	34.75
HIRED LABOR	74.97	80.49	86.14
PURCHASED IRRIGATION WATER	26.16	26.64	26.64
MISCELLANEOUS	.06	.06	.06
TOTAL, VARIABLE EXPENSES	402.22	404.41	404.54
GENERAL FARM OVERHEAD	67.14	63.84	62.75
TAXES AND INSURANCE	17.27	17.33	18.27
INTEREST	111.04	142.16	135.28
TOTAL, FIXED EXPENSES	195.45	223.33	216.30
TOTAL, CASH EXPENSES	597.67	627.74	620.84
RECEIPTS LESS CASH EXPENSES	513.88	325.07	319.75
CAPITAL REPLACEMENT	58.19	57.78	56.71
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	455.69	267.29	263.04
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	402.22	404.41	404.54
GENERAL FARM OVERHEAD	67.14	63.84	62.75
TAXES AND INSURANCE	17.27	17.33	18.27
CAPITAL REPLACEMENT	58.19	57.78	56.71
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	16.46	17.97	14.68
RETURN TO OTHER NONLAND CAPITAL 4/	23.31	22.71	22.50
NET LAND RENT 5/	186.33	191.09	188.32
UNPAID LABOR	50.84	32.88	35.19
TOTAL, ECONOMIC COSTS	821.76	808.01	802.96
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	289.79	144.80	137.63
TOTAL, RETURNS TO OWNED INPUTS 7/	566.73	409.45	398.32
PRICE (DOLLARS/TON)	40.58	36.90	36.25
YIELD (NET TONS/PLANTED ACRE)	27.37	25.80	25.93

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 63--SUGAR-BEET PRODUCTION COSTS, CALIFORNIA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	902.09	845.21	781.13
SECONDARY CROP	2.62	2.35	1.88
TOTAL	904.71	847.56	783.01
CASH EXPENSES:			
SEED	14.28	17.77	18.84
FERTILIZER	62.54	47.21	45.64
CHEMICALS	97.74	44.62	44.62
CUSTOM OPERATIONS	118.06	127.94	129.20
FUEL AND LUBRICATION	67.04	60.77	64.85
REPAIRS	34.02	34.31	33.66
HIRED LABOR	89.02	96.97	101.67
PURCHASED IRRIGATION WATER	35.00	35.59	35.60
MISCELLANEOUS	5.30	5.83	5.84
TOTAL, VARIABLE EXPENSES	523.00	471.01	479.92
GENERAL FARM OVERHEAD	49.85	46.36	42.70
TAXES AND INSURANCE	21.16	23.89	23.66
INTEREST	84.86	74.33	66.21
TOTAL, FIXED EXPENSES	155.87	144.58	132.57
TOTAL, CASH EXPENSES	678.87	615.59	612.49
RECEIPTS LESS CASH EXPENSES	225.84	231.97	170.52
CAPITAL REPLACEMENT	60.32	60.55	59.40
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	165.52	171.42	111.12
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	523.00	471.01	479.92
GENERAL FARM OVERHEAD	49.85	46.36	42.70
TAXES AND INSURANCE	21.16	23.89	23.66
CAPITAL REPLACEMENT	60.32	60.55	59.40
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 3/	27.27	26.80	22.69
RETURN TO OTHER NONLAND CAPITAL 4/	24.38	24.04	23.80
NET LAND RENT 5/	146.88	131.15	124.36
UNPAID LABOR	51.48	49.96	52.38
TOTAL, ECONOMIC COSTS	904.34	833.76	828.91
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	.37	13.80	-45.90
TOTAL, RETURNS TO OWNED INPUTS 7/	250.38	245.75	177.33
PRICE (DOLLARS/TON)	40.20	35.10	34.20
YIELD (NET TONS/PLANTED ACRE)	22.44	24.08	22.84

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 4/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ OF TOTAL ACRES RENTED, PERCENTAGE OF CASH- AND SHARE-RENTED ACRES MULTIPLIED BY THE AVERAGE CASH AND SHARE RENT. 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 64--U.S. SUGARCANE PRODUCTION COSTS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER ACRE		
CASH RECEIPTS:			
PRIMARY CROP 3/	1,036.94	1,051.86	1,006.40
HAULING ALLOWANCE	13.26	6.95	8.29
TOTAL	1,050.20	1,058.81	1,014.69
CASH EXPENSES:			
SEED	1.12	3.14	2.98
FERTILIZER	86.29	80.69	76.76
CHEMICALS	55.05	58.38	56.44
CUSTOM OPERATIONS	32.91	40.05	38.71
FUEL AND LUBRICATION	62.32	53.20	47.83
REPAIRS	131.20	128.21	131.96
HIRED LABOR	342.45	381.06	373.01
PURCHASED IRRIGATION WATER	2.24	2.29	1.99
MISCELLANEOUS	12.39	18.92	18.49
TOTAL, VARIABLE EXPENSES	725.97	765.94	748.17
GENERAL FARM OVERHEAD	76.63	87.73	87.37
TAXES AND INSURANCE	28.60	30.89	31.08
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	105.23	118.62	118.45
TOTAL, CASH EXPENSES	831.20	884.56	866.62
RECEIPTS LESS CASH EXPENSES	219.00	174.25	148.07
CAPITAL REPLACEMENT	68.31	74.07	74.27
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	150.69	100.18	73.80
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	725.97	765.94	748.17
GENERAL FARM OVERHEAD	76.63	87.73	87.37
TAXES AND INSURANCE	28.60	30.89	31.08
CAPITAL REPLACEMENT	68.31	74.07	74.27
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 4/	40.83	47.77	36.88
RETURN TO OTHER NONLAND CAPITAL 5/	42.67	49.30	43.02
LAND	149.01	152.39	143.73
UNPAID LABOR	22.85	21.55	22.79
TOTAL, ECONOMIC COSTS	1,154.87	1,229.64	1,187.31
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-104.67	-170.83	-172.62
TOTAL, RETURNS TO OWNED INPUTS 7/	150.69	100.18	73.80
PRICE (DOLLARS/TON)	27.80	28.20	27.20
YIELD (NET TONS/ACRE)	37.30	37.30	37.00

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ INCLUDES RETURNS FROM MOLASSES. 4/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 5/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 65--SUGARCANE PRODUCTION COSTS, FLORIDA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER ACRE		
CASH RECEIPTS:			
PRIMARY CROP 3/	906.62	950.81	921.20
TOTAL	906.62	950.81	921.20
CASH EXPENSES:			
SEED	1.35	3.66	3.62
FERTILIZER	46.00	36.33	36.01
CHEMICALS	38.88	41.93	42.38
CUSTOM OPERATIONS	20.25	36.11	36.08
FUEL AND LUBRICATION	46.88	38.64	36.30
REPAIRS	99.71	86.31	85.63
HIRED LABOR	352.25	381.95	386.09
MISCELLANEOUS	6.71	17.60	17.90
TOTAL, VARIABLE EXPENSES	612.03	642.53	644.01
GENERAL FARM OVERHEAD	54.53	60.35	60.64
TAXES AND INSURANCE	34.82	34.09	34.85
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	89.35	94.44	95.49
TOTAL, CASH EXPENSES	701.38	736.97	739.50
RECEIPTS LESS CASH EXPENSES	205.24	213.84	181.70
CAPITAL REPLACEMENT	39.02	46.03	47.16
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	166.22	167.81	134.54
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	612.03	642.53	644.01
GENERAL FARM OVERHEAD	54.53	60.35	60.64
TAXES AND INSURANCE	34.82	34.09	34.85
CAPITAL REPLACEMENT	39.02	46.03	47.16
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 4/	29.13	34.47	26.98
RETURN TO OTHER NONLAND CAPITAL 5/	31.16	35.73	29.12
LAND	160.00	154.80	154.80
TOTAL, ECONOMIC COSTS	960.69	1,008.00	997.56
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-54.07	-57.19	-76.36
TOTAL, RETURNS TO OWNED INPUTS 7/	166.22	167.81	134.54
PRICE (DOLLARS/TON)	28.60	28.90	28.00
YIELD (NET TONS/ACRE)	31.70	32.90	32.90

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ INCLUDES RETURNS FROM MOLASSES. 4/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 5/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 66--SUGARCANE PRODUCTION COSTS, HAWAII, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER ACRE		
CASH RECEIPTS:			
PRIMARY CROP 3/	2,876.38	2,863.35	2,806.65
TOTAL	2,876.38	2,863.35	2,806.65
CASH EXPENSES:			
SEED	3.60	4.03	4.42
FERTILIZER	375.07	360.90	371.77
CHEMICALS	122.17	122.67	125.64
CUSTOM OPERATIONS	109.80	110.81	111.41
FUEL AND LUBRICATION	144.45	130.98	127.36
REPAIRS	439.20	448.46	473.60
HIRED LABOR	1,226.48	1,279.18	1,351.61
MISCELLANEOUS	72.45	74.75	78.76
TOTAL, VARIABLE EXPENSES	2,493.22	2,531.78	2,644.57
GENERAL FARM OVERHEAD	296.55	311.31	341.34
TAXES AND INSURANCE	42.53	43.90	48.83
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	339.08	355.21	390.17
TOTAL, CASH EXPENSES	2,832.30	2,886.99	3,034.74
RECEIPTS LESS CASH EXPENSES	44.08	-23.64	-228.09
CAPITAL REPLACEMENT	143.55	159.45	182.57
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-99.47	-183.09	-410.66
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	2,493.22	2,531.78	2,644.57
GENERAL FARM OVERHEAD	296.55	311.31	341.34
TAXES AND INSURANCE	42.53	43.90	48.83
CAPITAL REPLACEMENT	143.55	159.45	182.57
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 4/	122.17	139.21	114.11
RETURN TO OTHER NONLAND CAPITAL 5/	121.28	146.88	133.74
LAND	233.32	298.33	232.87
TOTAL, ECONOMIC COSTS	3,452.62	3,630.86	3,698.03
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-576.24	-767.51	-891.38
TOTAL, RETURNS TO OWNED INPUTS 7/	-99.47	-183.09	-410.66
PRICE (DOLLARS/TON)	29.90	30.30	29.70
YIELD (NET TONS/ACRE)	96.20	94.50	94.50

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ INCLUDES RETURNS FROM MOLASSES. 4/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 5/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 67--SUGARCANE PRODUCTION COSTS, LOUISIANA, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER ACRE		
CASH RECEIPTS:			
PRIMARY CROP 3/	604.67	525.80	558.90
HAULING ALLOWANCE	39.69	23.75	26.27
TOTAL	644.36	549.55	585.17
CASH EXPENSES:			
SEED	N/A	2.32	1.74
FERTILIZER	40.68	43.00	40.86
CHEMICALS	51.86	59.61	54.82
CUSTOM OPERATIONS	16.98	17.30	17.14
FUEL AND LUBRICATION	58.34	49.76	41.35
REPAIRS	68.59	74.88	99.67
HIRED LABOR	17.15	22.17	20.57
TOTAL, VARIABLE EXPENSES	253.60	269.04	271.15
GENERAL FARM OVERHEAD	31.49	45.30	43.43
TAXES AND INSURANCE	16.59	22.93	21.23
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	48.08	68.23	64.66
TOTAL, CASH EXPENSES	301.68	337.27	335.81
RECEIPTS LESS CASH EXPENSES	342.68	212.28	249.36
CAPITAL REPLACEMENT	89.79	95.15	87.05
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	252.89	117.13	162.31
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	253.60	269.04	271.15
GENERAL FARM OVERHEAD	31.49	45.30	43.43
TAXES AND INSURANCE	16.59	22.93	21.23
CAPITAL REPLACEMENT	89.79	95.15	87.05
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 4/	27.83	33.34	26.31
RETURN TO OTHER NONLAND CAPITAL 5/	34.73	38.37	35.10
LAND	108.86	93.64	98.75
UNPAID LABOR	66.32	71.13	70.76
TOTAL, ECONOMIC COSTS	629.21	668.90	653.78
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	15.15	-119.35	-68.61
TOTAL, RETURNS TO OWNED INPUTS 7/	252.89	117.13	162.31
PRICE (DOLLARS/TON)	25.30	23.90	23.00
YIELD (NET TONS/ACRE)	23.90	22.00	24.30

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ INCLUDES RETURNS FROM MOLASSES. 4/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 5/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 68--SUGARCANE PRODUCTION COSTS, TEXAS, 1983-85 1/, 2/

ITEM	1983	1984	1985
	DOLLARS PER ACRE		
CASH RECEIPTS:			
PRIMARY CROP 3/	448.40	596.75	579.60
TOTAL	448.40	596.75	579.60
CASH EXPENSES:			
FERTILIZER	54.65	56.00	56.92
CHEMICALS	66.71	61.92	59.76
CUSTOM OPERATIONS	71.98	34.59	35.27
FUEL AND LUBRICATION	30.97	28.12	25.31
REPAIRS	76.57	66.34	67.53
HIRED LABOR	171.81	172.23	176.85
PURCHASED IRRIGATION WATER	46.71	46.48	47.00
MISCELLANEOUS	N/A	.60	.61
TOTAL, VARIABLE EXPENSES	519.40	466.28	469.25
GENERAL FARM OVERHEAD	36.57	55.78	62.85
TAXES AND INSURANCE	11.45	8.92	8.82
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	48.02	64.70	71.67
TOTAL, CASH EXPENSES	567.42	530.98	540.92
RECEIPTS LESS CASH EXPENSES	-119.02	65.77	38.68
CAPITAL REPLACEMENT	20.15	28.99	28.03
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-139.17	36.78	10.65
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	519.40	466.28	469.25
GENERAL FARM OVERHEAD	36.57	55.78	62.85
TAXES AND INSURANCE	11.45	8.92	8.82
CAPITAL REPLACEMENT	20.15	28.99	28.03
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 4/	37.20	39.52	31.26
RETURN TO OTHER NONLAND CAPITAL 5/	8.12	7.72	7.10
LAND	91.37	96.49	98.65
UNPAID LABOR	15.12	15.01	15.65
TOTAL, ECONOMIC COSTS	739.38	718.71	721.61
RESIDUAL RETURNS TO MANAGEMENT AND RISK 6/	-290.98	-121.96	-142.01
TOTAL, RETURNS TO OWNED INPUTS 7/	-139.17	36.78	10.65
PRICE (DOLLARS/TON)	15.20	21.70	20.70
YIELD (NET TONS/ACRE)	29.50	27.50	28.00

1/ TO ESTIMATE THE PER-UNIT EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, REFER TO TEXT SECTION "USING COST-OF-PRODUCTION DATA." 2/ SUM OF OPERATOR AND LANDLORD EXPENSES. 3/ INCLUDES RETURNS FROM MOLASSES. 4/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 5/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 6/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 7/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 69--U.S. FED CATTLE PRODUCTION COSTS, PER CWT, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FED BEEF (100 lbs) 1/	62.12	64.95	59.52
TOTAL	62.12	64.95	59.52
CASH EXPENSES:			
FEEDERS--			
FEEDER CATTLE (63 lbs)	37.62	38.53	38.99
FEED--			
HAYLAGE (9.0 lbs)	.07	.06	.04
SILAGE (82.5 lbs)	.96	.94	.86
DRY GRAIN (233.3 lbs)	12.75	13.24	10.96
CONCENTRATES (16.6 lbs)	.58	.76	.59
PROTEIN SUPPLEMENTS (20.7 lbs)	4.24	2.00	2.05
LEGUME HAY (33.0 lbs)	1.37	1.25	1.03
OTHER ROUGHAGES (8.1 lbs)	.34	.64	.56
PASTURE (.0004 ac)	0	0	0
CROP RESIDUE (.007 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	.51	.51	.57
LIVESTOCK HAULING	.15	.14	.13
MARKETING	.07	.06	.06
BEDDING	.05	.04	.04
FUEL, LUBE, AND ELECTRICITY	.67	.51	.51
MACHINERY AND BUILDING REPAIRS	.58	.51	.50
HIRED LABOR	.64	.75	.76
MISCELLANEOUS	.97	1.01	1.03
MANURE CREDIT	-.10	-.08	-.08
TOTAL, VARIABLE EXPENSES	61.47	60.87	58.60
GENERAL FARM OVERHEAD	.63	.55	.46
TAXES AND INSURANCE	.18	.16	.14
HIRED MANAGEMENT	.14	.11	.11
INTEREST	5.01	4.81	4.45
TOTAL, FIXED EXPENSES	5.96	5.63	5.16
TOTAL, CASH EXPENSES	67.43	66.50	63.76
RECEIPTS LESS CASH EXPENSES	-5.31	-1.55	-4.24
CAPITAL REPLACEMENT	1.21	1.07	1.02
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.52	-2.62	-5.26
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	61.47	60.87	58.60
GENERAL FARM OVERHEAD	.63	.55	.46
TAXES AND INSURANCE	.18	.16	.14
CAPITAL REPLACEMENT	1.21	1.07	1.02
HIRED MANAGEMENT	.14	.11	.11
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.64	1.35	1.30
RETURN TO OTHER NONLAND CAPITAL 3/	.48	.42	.40
LAND 4/	.19	.14	.11
UNPAID LABOR	.52	.47	.45
TOTAL, ECONOMIC COSTS	66.46	65.14	62.59
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-4.34	-.19	-3.07
TOTAL, RETURNS TO OWNED INPUTS 6/	-1.51	2.19	-.81

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 70--FED CATTLE PRODUCTION COSTS, PER CWT, ALL SIZES, FARMER FEEDLOTS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FED BEEF (100 lbs) 1/	62.03	65.09	58.28
TOTAL	62.03	65.09	58.28
CASH EXPENSES:			
FEEDERS--			
FEEDER CATTLE (55.0 lbs)	35.21	33.79	35.48
FEED--			
HAYLAGE (48.0 lbs)	.31	.30	.25
SILAGE (314.0 lbs)	2.68	3.68	3.24
DRY GRAIN (170.9 lbs)	9.00	9.15	7.66
CONCENTRATES (87.4 lbs)	2.64	4.01	3.31
PROTEIN SUPPLEMENTS (23.6 lbs)	3.00	2.92	2.49
LEGUME HAY (54 lbs)	.54	.69	.57
PASTURE (.002 ac)	.01	.01	.01
CROP RESIDUE (.035 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	.54	.56	.56
LIVESTOCK HAULING	.70	.72	.75
MARKETING	.32	.34	.32
BEDDING	.22	.23	.23
FUEL, LUBE, AND ELECTRICITY	1.25	1.05	1.08
MACHINERY AND BUILDING REPAIRS	1.55	1.49	1.49
HIRED LABOR (.098 hr)	.52	.52	.54
MANURE CREDIT	-.11	-.11	-.10
TOTAL, VARIABLE EXPENSES	58.38	59.35	57.88
GENERAL FARM OVERHEAD	2.87	2.91	2.60
TAXES AND INSURANCE	.52	.52	.48
INTEREST	8.27	7.97	6.87
TOTAL, FIXED EXPENSES	11.66	11.40	9.95
TOTAL, CASH EXPENSES	70.04	70.75	67.83
RECEIPTS LESS CASH EXPENSES	-8.01	-5.66	-9.55
CAPITAL REPLACEMENT	3.62	3.65	3.59
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-11.63	-9.31	-13.14
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	58.38	59.35	57.88
GENERAL FARM OVERHEAD	2.87	2.91	2.60
TAXES AND INSURANCE	.52	.52	.48
CAPITAL REPLACEMENT	3.62	3.65	3.59
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.71	1.97	1.92
RETURN TO OTHER NONLAND CAPITAL 3/	1.43	1.40	1.37
LAND 4/	.66	.58	.41
UNPAID LABOR (.5 hr)	2.37	2.46	2.51
TOTAL, ECONOMIC COSTS	71.56	72.84	70.76
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-9.53	-7.75	-12.48
TOTAL, RETURNS TO OWNED INPUTS 6/	-3.36	-1.34	-6.27

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 71--FED CATTLE PRODUCTION COSTS, PER CWT, ALL SIZES, COMMERCIAL FEEDLOTS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FED BEEF (100 lbs) 1/	62.15	64.92	59.79
TOTAL	62.15	64.92	59.79
CASH EXPENSES:			
FEEDERS--			
FEEDER CATTLE (64.9 lbs)	38.30	39.64	39.75
FEED--			
SILAGE (28.0 lbs)	.47	.29	.34
DRY GRAIN (248.0 lbs)	13.82	14.20	11.68
PROTEIN SUPPLEMENTS (20.0 lbs)	4.59	1.78	1.96
LEGUME HAY (28.0 lbs)	1.60	1.38	1.13
OTHER ROUGHAGES (10.0 lbs)	.44	.79	.68
OTHER--			
VETERINARY AND MEDICINE	.50	.50	.51
FUEL, LUBE, AND ELECTRICITY	.50	.38	.39
MACHINERY AND BUILDING REPAIRS	.30	.28	.28
HIRED LABOR	.68	.80	.81
MISCELLANEOUS	1.24	1.25	1.25
MANURE CREDIT	-.10	-.07	-.07
TOTAL, VARIABLE EXPENSES	62.34	61.22	58.71
TAXES AND INSURANCE	.08	.07	.07
HIRED MANAGEMENT	.18	.14	.14
INTEREST	4.08	4.07	3.92
TOTAL, FIXED EXPENSES	4.34	4.28	4.13
TOTAL, CASH EXPENSES	66.68	65.50	62.84
RECEIPTS LESS CASH EXPENSES	-4.53	-.58	-3.05
CAPITAL REPLACEMENT	.52	.46	.46
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.05	-1.04	-3.51
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	62.34	61.22	58.71
TAXES AND INSURANCE	.08	.07	.07
CAPITAL REPLACEMENT	.52	.46	.46
HIRED MANAGEMENT	.18	.14	.14
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.62	1.21	1.16
RETURN TO OTHER NONLAND CAPITAL 3/	.21	.19	.19
LAND 4/	.06	.04	.04
UNPAID LABOR	0	0	0
TOTAL, ECONOMIC COSTS	65.01	63.33	60.77
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-2.86	1.59	-.98
TOTAL, RETURNS TO OWNED INPUTS 6/	-.97	3.03	.41

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 72--U.S. COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.142 cwt) 1/	74.62	76.37	77.71
HEIFER CALVES (.805 cwt)	43.80	44.36	46.22
YEARLING STEERS (1.028 cwt)	61.23	65.89	61.52
YEARLING HEIFERS (.737 cwt)	38.89	41.47	40.30
CULL COWS (.82 cwt)	28.64	30.69	28.64
TOTAL	247.18	258.78	254.39
CASH EXPENSES:			
FEED--			
GRAIN (2.008 cwt)	10.70	11.20	9.39
SILAGE (.272 ton)	6.20	5.83	6.04
PROTEIN SUPPLEMENTS (1.519 cwt)	18.13	18.69	16.00
SALT AND MINERALS (.329 cwt)	2.52	2.62	2.69
HAY (1.26 tons)	38.99	43.34	43.57
PASTURE (1.13 ac)	15.72	16.41	15.22
PASTURE (1.105 AUM)	9.83	9.82	9.59
PASTURE (1.515 AM)	10.90	13.07	12.21
PRIVATE RANGE (4.546 AUM)	0	0	0
PUBLIC GRAZING (.123 AUM)	.29	.29	.27
PUBLIC GRAZING (.184 AM)	.36	.42	.39
CROP RESIDUE (.313 ac)	0	0	0
CROP RESIDUE (.349 AUM)	.08	.08	.07
OTHER--			
VETERINARY AND MEDICINE	6.11	6.31	6.38
LIVESTOCK HAULING	1.74	1.80	1.85
MARKETING	4.00	4.10	4.21
CUSTOM FEED MIXING	.47	.48	.49
FUEL, LUBE, AND ELECTRICITY	19.54	16.58	16.56
MACHINERY AND BUILDING REPAIRS	22.09	21.58	21.59
HIRED LABOR (3.31 hrs)	13.48	13.72	13.98
TOTAL, VARIABLE EXPENSES	181.15	186.34	180.50
GENERAL FARM OVERHEAD	19.26	24.13	23.78
TAXES AND INSURANCE	23.43	19.54	18.58
INTEREST	44.96	46.52	44.01
TOTAL, FIXED EXPENSES	87.65	90.19	86.37
TOTAL, CASH EXPENSES	268.80	276.53	266.87
RECEIPTS LESS CASH EXPENSES	-21.62	-17.75	-12.48
CAPITAL REPLACEMENT	64.28	64.46	63.60
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-85.90	-82.21	-76.08
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	181.15	186.34	180.50
GENERAL FARM OVERHEAD	19.26	24.13	23.78
TAXES AND INSURANCE	23.43	19.54	18.58
CAPITAL REPLACEMENT	64.28	64.46	63.60
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	11.68	11.64	11.39
RETURN TO OTHER NONLAND CAPITAL 3/	45.52	46.26	45.96
LAND 4/	132.74	130.21	122.23
UNPAID LABOR (18.602 hrs)	74.68	76.73	78.28
TOTAL, ECONOMIC COSTS	552.74	559.31	544.32
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-305.56	-300.53	-289.93
TOTAL, RETURNS TO OWNED INPUTS 6/	-40.94	-35.69	-32.07

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 73--U.S. COW-CALF PRODUCTION COSTS, PER COW, FEWER THAN 100 COWS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.255 cwt) 1/	81.80	83.90	85.05
HEIFER CALVES (.858 cwt)	46.25	46.94	48.68
YEARLING STEERS (.854 cwt)	52.03	55.20	52.53
YEARLING HEIFERS (.691 cwt)	37.29	38.98	38.59
CULL COWS (.778 cwt)	27.58	29.63	27.43
TOTAL	244.95	254.65	252.28
CASH EXPENSES:			
FEED--			
GRAIN (2.123 cwt)	11.25	11.69	9.84
SILAGE (.248 ton)	5.70	5.33	5.47
PROTEIN SUPPLEMENTS (1.352 cwt)	16.43	16.75	14.32
SALT AND MINERALS (.323 cwt)	2.78	2.88	2.96
HAY (1.403 tons)	47.29	52.64	52.46
PASTURE (1.388 ac)	18.57	19.33	17.89
PASTURE (.546 AUM)	4.79	4.83	4.69
PASTURE (1.116 AM)	8.14	9.46	8.92
PRIVATE RANGE (3.391 AUM)	0	0	0
PUBLIC GRAZING (.074 AUM)	.19	.19	.18
PUBLIC GRAZING (.038 AM)	.14	.17	.16
CROP RESIDUE (.457 ac)	0	0	0
CROP RESIDUE (.283 AUM)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	6.12	6.31	6.37
LIVESTOCK HAULING	1.44	1.48	1.52
MARKETING	4.48	4.65	4.75
CUSTOM FEED MIXING	.56	.59	.60
FUEL, LUBE, AND ELECTRICITY	23.90	20.36	20.33
MACHINERY AND BUILDING REPAIRS	26.90	26.32	26.35
HIRED LABOR (1.699 hrs)	6.66	6.69	6.92
TOTAL, VARIABLE EXPENSES	185.34	189.67	183.73
GENERAL FARM OVERHEAD	24.75	33.51	32.97
TAXES AND INSURANCE	26.35	22.25	20.96
INTEREST	44.55	49.66	47.19
TOTAL, FIXED EXPENSES	95.65	105.42	101.12
TOTAL, CASH EXPENSES	280.99	295.09	284.85
RECEIPTS LESS CASH EXPENSES	-36.04	-40.44	-32.57
CAPITAL REPLACEMENT	76.62	77.05	76.14
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-112.66	-117.49	-108.71
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	185.34	189.67	183.73
GENERAL FARM OVERHEAD	24.75	33.51	32.97
TAXES AND INSURANCE	26.35	22.25	20.96
CAPITAL REPLACEMENT	76.62	77.05	76.14
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	13.18	13.10	12.85
RETURN TO OTHER NONLAND CAPITAL 3/	50.58	51.62	51.28
LAND 4/	134.92	130.70	121.54
UNPAID LABOR (25.223 hrs)	100.60	103.17	105.32
TOTAL, ECONOMIC COSTS	612.34	621.07	604.79
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-367.39	-366.42	-352.51
TOTAL, RETURNS TO OWNED INPUTS 6/	-68.11	-67.83	-61.52

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 74--U.S. COW-CALF PRODUCTION COSTS, PER COW, 100-499 COWS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.094 cwt) 1/	72.02	73.57	75.39
HEIFER CALVES (.803 cwt)	44.35	44.83	46.96
YEARLING STEERS (1.149 cwt)	67.99	73.29	68.09
YEARLING HEIFERS (.762 cwt)	39.69	42.84	41.17
CULL COWS (.868 cwt)	29.83	31.96	30.00
TOTAL	253.88	266.49	261.61
CASH EXPENSES:			
FEED--			
GRAIN (2.37 cwt)	12.77	13.53	11.16
SILAGE (.391 ton)	8.80	8.34	8.73
PROTEIN SUPPLEMENTS (1.789 cwt)	21.29	21.77	18.74
SALT AND MINERALS (.336 cwt)	2.23	2.34	2.41
HAY (1.257 tons)	32.43	36.46	38.13
PASTURE (.787 ac)	11.31	12.04	11.19
PASTURE (1.435 AUM)	12.87	12.68	12.39
PASTURE (2.009 AM)	14.96	17.70	16.48
PRIVATE RANGE (5.319 AUM)	0	0	0
PUBLIC GRAZING (.116 AUM)	.24	.23	.23
PUBLIC GRAZING (.373 AM)	.71	.84	.78
CROP RESIDUE (.186 ac)	0	0	0
CROP RESIDUE (.419 AUM)	.25	.26	.23
OTHER--			
VETERINARY AND MEDICINE	6.43	6.67	6.76
LIVESTOCK HAULING	1.82	1.89	1.94
MARKETING	3.76	3.74	3.84
CUSTOM FEED MIXING	.49	.50	.50
FUEL, LUBE, AND ELECTRICITY	16.45	13.93	13.88
MACHINERY AND BUILDING REPAIRS	17.64	17.28	17.25
HIRED LABOR (4.358 hrs)	17.76	18.02	18.30
TOTAL, VARIABLE EXPENSES	182.21	188.22	182.94
GENERAL FARM OVERHEAD	16.05	15.42	15.18
TAXES AND INSURANCE	20.24	16.43	15.70
INTEREST	53.17	48.15	45.38
TOTAL, FIXED EXPENSES	89.46	80.00	76.26
TOTAL, CASH EXPENSES	271.67	268.22	259.20
RECEIPTS LESS CASH EXPENSES	-17.79	-1.73	2.41
CAPITAL REPLACEMENT	53.45	53.23	52.22
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-71.24	-54.96	-49.81
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	182.21	188.22	182.94
GENERAL FARM OVERHEAD	16.05	15.42	15.18
TAXES AND INSURANCE	20.24	16.43	15.70
CAPITAL REPLACEMENT	53.45	53.23	52.22
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	10.87	10.87	10.63
RETURN TO OTHER NONLAND CAPITAL 3/	40.98	41.35	40.99
LAND 4/	119.20	118.09	111.12
UNPAID LABOR (13.694 hrs)	55.72	57.90	58.76
TOTAL, ECONOMIC COSTS	498.72	501.51	487.54
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-244.84	-235.02	-225.93
TOTAL, RETURNS TO OWNED INPUTS 6/	-18.07	-6.81	-4.43

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 75--U.S. COW-CALF PRODUCTION COSTS, PER COW, MORE THAN 500 COWS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (.802 cwt) 1/	51.76	52.97	53.82
HEIFER CALVES (.600 cwt)	32.76	33.06	34.69
YEARLING STEERS (1.443 cwt)	82.63	91.16	82.10
YEARLING HEIFERS (.862 cwt)	43.46	48.15	45.13
CULL COWS (.876 cwt)	30.17	31.92	30.30
TOTAL	240.78	257.26	246.04
CASH EXPENSES:			
FEED--			
GRAIN (.708 cwt)	3.77	3.82	3.47
SILAGE (.092 ton)	2.22	1.96	2.06
PROTEIN SUPPLEMENTS (1.559 cwt)	17.68	19.23	16.35
SALT AND MINERALS (.34 cwt)	2.19	2.24	2.31
HAY (.695 ton)	20.73	22.36	20.72
PASTURE (.895 ac)	14.37	14.98	13.94
PASTURE (2.57 AUM)	23.06	22.97	22.63
PASTURE (1.96 AM)	12.68	16.62	15.41
PRIVATE RANGE (7.357 AUM)	0	0	0
PUBLIC GRAZING (.332 AUM)	.81	.81	.76
PUBLIC GRAZING (.326 AM)	.40	.44	.42
CROP RESIDUE (.038 ac)	0	0	0
CROP RESIDUE (.447 AUM)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.31	5.46	5.53
LIVESTOCK HAULING	2.75	2.85	2.96
MARKETING	2.67	2.75	2.88
CUSTOM FEED MIXING	.02	.02	.02
FUEL, LUBE, AND ELECTRICITY	9.12	7.70	7.72
MACHINERY AND BUILDING REPAIRS	13.01	12.73	12.67
HIRED LABOR (7.299 hrs)	31.01	31.60	32.15
TOTAL, VARIABLE EXPENSES	161.80	168.54	162.00
GENERAL FARM OVERHEAD	4.63	7.15	7.06
TAXES AND INSURANCE	19.08	16.17	15.80
INTEREST	27.86	30.24	28.17
TOTAL, FIXED EXPENSES	51.57	53.56	51.03
TOTAL, CASH EXPENSES	213.37	222.10	213.03
RECEIPTS LESS CASH EXPENSES	27.41	35.16	33.01
CAPITAL REPLACEMENT	39.78	40.70	40.00
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-12.37	-5.54	-6.99
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	161.80	168.54	162.00
GENERAL FARM OVERHEAD	4.63	7.15	7.06
TAXES AND INSURANCE	19.08	16.17	15.80
CAPITAL REPLACEMENT	39.78	40.70	40.00
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	7.53	7.64	7.32
RETURN TO OTHER NONLAND CAPITAL 3/	35.61	36.39	36.12
LAND 4/	155.00	156.52	150.78
UNPAID LABOR (3.58 hrs)	14.49	15.46	15.75
TOTAL, ECONOMIC COSTS	437.92	448.57	434.83
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-197.14	-191.31	-188.79
TOTAL, RETURNS TO OWNED INPUTS 6/	15.49	24.70	21.18

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 76--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, GREAT PLAINS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.048 cwt) 1/	71.51	72.30	75.73
HEIFER CALVES (.822 cwt)	46.87	47.39	50.24
YEARLING STEERS (1.216 cwt)	70.70	79.17	71.04
YEARLING HEIFERS (.845 cwt)	42.90	47.97	45.35
CULL COWS (.626 cwt)	20.58	22.32	21.39
TOTAL	252.56	269.15	263.75
CASH EXPENSES:			
FEED--			
GRAIN (1.887 cwt)	9.27	9.93	8.20
SILAGE (.384 ton)	8.05	8.37	8.92
PROTEIN SUPPLEMENTS (2.271 cwt)	27.10	27.79	23.21
SALT AND MINERALS (.35 cwt)	1.68	1.90	1.93
HAY (1.105 tons)	32.34	33.73	43.10
PASTURE (4.124 AM)	29.43	35.13	33.23
PRIVATE RANGE (7.985 AUM)	0	0	0
PUBLIC GRAZING (.336 AM)	.74	.90	.85
CROP RESIDUE (.532 AUM)	.21	.22	.20
OTHER--			
VETERINARY AND MEDICINE	6.04	6.30	6.38
LIVESTOCK HAULING	1.57	1.63	1.69
MARKETING	4.68	4.75	4.91
CUSTOM FEED MIXING	.53	.53	.54
FUEL, LUBE, AND ELECTRICITY	20.67	17.69	17.69
MACHINERY AND BUILDING REPAIRS	19.54	19.23	19.22
HIRED LABOR (3.036 hrs)	11.85	11.93	12.08
TOTAL, VARIABLE EXPENSES	173.70	180.03	182.15
GENERAL FARM OVERHEAD	20.81	28.96	28.45
TAXES AND INSURANCE	18.28	12.98	12.48
INTEREST	41.77	52.64	49.65
TOTAL, FIXED EXPENSES	80.86	94.58	90.58
TOTAL, CASH EXPENSES	254.56	274.61	272.73
RECEIPTS LESS CASH EXPENSES	-2.00	-5.46	-8.98
CAPITAL REPLACEMENT	58.25	58.11	56.91
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-60.25	-63.57	-65.89
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	173.70	180.03	182.15
GENERAL FARM OVERHEAD	20.81	28.96	28.45
TAXES AND INSURANCE	18.28	12.98	12.48
CAPITAL REPLACEMENT	58.25	58.11	56.91
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	9.19	8.93	9.08
RETURN TO OTHER NONLAND CAPITAL 3/	42.90	42.96	42.55
LAND 4/	127.07	129.18	124.52
UNPAID LABOR (17.253 hrs)	67.11	68.41	69.53
TOTAL, ECONOMIC COSTS	517.31	529.56	525.67
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-264.75	-260.41	-261.92
TOTAL, RETURNS TO OWNED INPUTS 6/	-18.48	-10.93	-16.24

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 77--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, NORTH CENTRAL, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.211 cwt) 1/	81.05	82.15	79.25
HEIFER CALVES (.74 cwt)	41.30	40.99	40.84
YEARLING STEERS (.96 cwt)	62.55	62.75	65.88
YEARLING HEIFERS (.807 cwt)	46.66	47.05	49.34
CULL COWS (.999 cwt)	35.64	39.77	34.46
TOTAL	267.20	272.71	269.77
CASH EXPENSES:			
FEED--			
GRAIN (2.423 cwt)	12.23	12.36	10.42
SILAGE (.445 ton)	10.54	8.95	9.00
PROTEIN SUPPLEMENTS (1.023 cwt)	13.11	12.79	11.40
SALT AND MINERALS (.32 cwt)	3.89	3.99	4.08
HAY (1.462 tons)	45.21	56.48	47.07
PASTURE (2.676 ac)	16.14	17.34	14.97
CROP RESIDUE (.536 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.96	6.08	6.14
LIVESTOCK HAULING	1.95	2.02	2.09
MARKETING	2.67	2.75	2.72
CUSTOM FEED MIXING	.12	.13	.13
FUEL, LUBE, AND ELECTRICITY	19.24	16.04	16.04
MACHINERY AND BUILDING REPAIRS	24.25	23.60	23.60
HIRED LABOR (.858 hr)	3.56	3.70	3.82
TOTAL, VARIABLE EXPENSES	158.87	166.23	151.48
GENERAL FARM OVERHEAD	19.20	20.20	19.93
TAXES AND INSURANCE	50.24	44.47	40.37
INTEREST	33.53	43.50	41.47
TOTAL, FIXED EXPENSES	102.97	108.17	101.77
TOTAL, CASH EXPENSES	261.84	274.40	253.25
RECEIPTS LESS CASH EXPENSES	5.36	-1.69	16.52
CAPITAL REPLACEMENT	72.88	71.75	71.18
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-67.52	-73.44	-54.66
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	158.87	166.23	151.48
GENERAL FARM OVERHEAD	19.20	20.20	19.93
TAXES AND INSURANCE	50.24	44.47	40.37
CAPITAL REPLACEMENT	72.88	71.75	71.18
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	11.69	11.90	11.25
RETURN TO OTHER NONLAND CAPITAL 3/	49.78	51.87	51.62
LAND 4/	177.84	163.56	143.32
UNPAID LABOR (23.036 hrs)	99.09	98.73	102.51
TOTAL, ECONOMIC COSTS	639.59	628.71	591.66
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-372.39	-356.00	-321.89
TOTAL, RETURNS TO OWNED INPUTS 6/	-33.99	-29.94	-13.19

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 78--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, SOUTH, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.344 cwt) 1/	82.89	85.79	88.49
HEIFER CALVES (.913 cwt)	45.29	46.13	48.76
YEARLING STEERS (.517 cwt)	32.39	31.20	32.11
YEARLING HEIFERS (.379 cwt)	21.17	19.40	20.81
CULL COWS (.895 cwt)	33.52	35.01	32.81
TOTAL	215.26	217.53	222.98
CASH EXPENSES:			
FEED--			
GRAIN (2.133 cwt)	11.96	12.63	10.82
SILAGE (.158 ton)	4.20	3.43	3.40
PROTEIN SUPPLEMENTS (1.172 cwt)	14.21	14.74	13.05
SALT AND MINERALS (.278 cwt)	3.45	3.54	3.62
HAY (1.265 tons)	49.71	55.64	48.42
PASTURE (2.828 ac)	54.10	56.32	51.66
CROP RESIDUE (.918 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.83	5.88	5.97
LIVESTOCK HAULING	.95	.98	1.01
MARKETING	4.19	4.23	4.29
CUSTOM FEED MIXING	1.04	1.07	1.07
FUEL, LUBE, AND ELECTRICITY	20.73	17.72	17.69
MACHINERY AND BUILDING REPAIRS	26.58	25.96	25.94
HIRED LABOR (3.715 hrs)	14.92	14.91	15.31
TOTAL, VARIABLE EXPENSES	211.87	217.05	202.25
GENERAL FARM OVERHEAD	18.89	20.82	21.36
TAXES AND INSURANCE	20.14	18.73	18.41
INTEREST	42.51	35.86	35.53
TOTAL, FIXED EXPENSES	81.54	75.41	75.30
TOTAL, CASH EXPENSES	293.41	292.46	277.55
RECEIPTS LESS CASH EXPENSES	-78.15	-74.93	-54.57
CAPITAL REPLACEMENT	77.38	77.71	76.88
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-155.53	-152.64	-131.45
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	211.87	217.05	202.25
GENERAL FARM OVERHEAD	18.89	20.82	21.36
TAXES AND INSURANCE	20.14	18.73	18.41
CAPITAL REPLACEMENT	77.38	77.71	76.88
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	14.64	14.70	13.88
RETURN TO OTHER NONLAND CAPITAL 3/	50.96	52.26	51.94
LAND 4/	157.86	156.58	151.99
UNPAID LABOR (18.275 hrs)	69.64	72.13	73.43
TOTAL, ECONOMIC COSTS	621.38	629.98	610.14
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-406.12	-412.45	-387.16
TOTAL, RETURNS TO OWNED INPUTS 6/	-113.02	-116.78	-95.92

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 79--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, WEST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
STEER CALVES (1.022 cwt) 1/	65.95	68.88	67.93
HEIFER CALVES (.705 cwt)	38.96	39.88	40.66
YEARLING STEERS (1.337 cwt)	75.71	83.44	75.36
YEARLING HEIFERS (.904 cwt)	45.54	50.46	47.18
CULL COWS (.926 cwt)	31.51	33.41	31.74
TOTAL	257.67	276.07	262.87
CASH EXPENSES:			
FEED--			
GRAIN (1.773 cwt)	10.57	10.92	9.03
SILAGE (.092 ton)	1.97	2.01	2.14
PROTEIN SUPPLEMENTS (1.025 cwt)	11.18	12.12	10.74
SALT AND MINERALS (.36 cwt)	1.89	1.86	1.94
HAY (1.364 tons)	33.74	36.68	36.51
PASTURE (4.92 AUM)	44.40	43.42	42.69
PRIVATE RANGE (7.178 AUM)	0	0	0
PUBLIC GRAZING (.547 AUM)	1.30	1.26	1.21
PUBLIC GRAZING (.268 AM)	.38	.37	.36
CROP RESIDUE (.681 AUM)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	6.64	6.95	7.01
LIVESTOCK HAULING	2.72	2.78	2.88
MARKETING	3.70	3.86	4.01
FUEL, LUBE, AND ELECTRICITY	16.53	13.90	13.85
MACHINERY AND BUILDING REPAIRS	19.82	19.31	19.21
HIRED LABOR (5.051 hrs)	22.17	22.45	22.86
TOTAL, VARIABLE EXPENSES	177.01	177.89	174.44
GENERAL FARM OVERHEAD	17.14	22.51	21.54
TAXES AND INSURANCE	15.40	13.74	13.34
INTEREST	61.64	50.00	45.97
TOTAL, FIXED EXPENSES	94.18	86.25	80.85
TOTAL, CASH EXPENSES	271.19	264.14	255.29
RECEIPTS LESS CASH EXPENSES	-13.52	11.93	7.58
CAPITAL REPLACEMENT	53.36	55.36	54.12
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-66.88	-43.43	-46.54
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	177.01	177.89	174.44
GENERAL FARM OVERHEAD	17.14	22.51	21.54
TAXES AND INSURANCE	15.40	13.74	13.34
CAPITAL REPLACEMENT	53.36	55.36	54.12
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	12.61	12.64	12.52
RETURN TO OTHER NONLAND CAPITAL 3/	41.00	41.52	41.11
LAND 4/	80.76	80.12	70.61
UNPAID LABOR (18.095 hrs)	74.32	79.78	80.75
TOTAL, ECONOMIC COSTS	471.60	483.56	468.43
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-213.93	-207.49	-205.56
TOTAL, RETURNS TO OWNED INPUTS 6/	-5.24	6.57	-.57

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TABLE 80--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (80.88 lbs) 1/	61.73	66.60	66.48
CULL SOWS (19.12 lbs)	7.78	8.04	7.25
TOTAL	69.51	74.64	73.73
CASH EXPENSES:			
FEED--			
GRAIN (431.4 lbs)	23.79	24.00	19.50
PROTEIN SUPPLEMENTS (128.9 lbs)	18.63	17.40	14.58
PASTURE (.04 ac)	.19	.17	.15
OTHER--			
VETERINARY AND MEDICINE	1.67	1.53	1.47
LIVESTOCK HAULING	.20	.20	.20
MARKETING	1.48	1.62	1.51
BEDDING (34.0 lbs)	.39	.37	.37
CUSTOM FEED MIXING	1.44	1.33	1.24
FUEL, LUBE, AND ELECTRICITY	7.49	6.80	7.02
MACHINERY AND BUILDING REPAIRS	5.14	4.78	4.71
HIRED LABOR (.406 hr)	2.05	2.62	2.90
MANURE CREDIT	-.15	-.16	-.15
TOTAL, VARIABLE EXPENSES	62.32	60.66	53.50
GENERAL FARM OVERHEAD	4.15	3.01	2.93
TAXES AND INSURANCE	2.10	1.88	1.77
INTEREST	8.43	10.84	10.04
TOTAL, FIXED EXPENSES	14.68	15.73	14.74
TOTAL, CASH EXPENSES	77.00	76.39	68.24
RECEIPTS LESS CASH EXPENSES	-7.49	-1.75	5.49
CAPITAL REPLACEMENT	13.35	11.90	11.78
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-20.84	-13.65	-6.29
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	62.32	60.66	53.50
GENERAL FARM OVERHEAD	4.15	3.01	2.93
TAXES AND INSURANCE	2.10	1.88	1.77
CAPITAL REPLACEMENT	13.35	11.90	11.78
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.79	1.89	1.73
RETURN TO OTHER NONLAND CAPITAL 3/	6.23	5.23	5.17
LAND 4/	1.92	1.44	.98
UNPAID LABOR (3.38 hrs)	17.95	16.79	17.18
TOTAL, ECONOMIC COSTS	109.81	102.80	95.04
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-40.30	-28.16	-21.31
TOTAL, RETURNS TO OWNED INPUTS 6/	-12.41	-2.81	3.75

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 81--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 140 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (79.96 lbs) 1/	62.86	66.40	67.24
CULL SOWS (20.04 lbs)	8.12	8.41	7.60
TOTAL	70.98	74.81	74.84
CASH EXPENSES:			
FEED--			
GRAIN (472.7 lbs)	25.98	26.50	21.60
PROTEIN SUPPLEMENTS (102.7 lbs)	19.01	17.79	14.69
PASTURE (.030 ac)	.50	.54	.55
OTHER--			
VETERINARY AND MEDICINE	2.82	2.86	2.87
MARKETING	1.39	1.56	1.51
BEDDING (32 lbs)	.33	.34	.35
CUSTOM FEED MIXING	5.36	5.53	5.51
FUEL, LUBE, AND ELECTRICITY	7.90	6.83	7.02
MACHINERY AND BUILDING REPAIRS	6.03	5.74	5.74
HIRED LABOR (.116 hr)	.36	.44	.47
TOTAL, VARIABLE EXPENSES	69.68	68.13	60.31
GENERAL FARM OVERHEAD	8.85	9.61	9.85
TAXES AND INSURANCE	2.07	1.90	1.86
INTEREST	15.13	24.56	23.68
TOTAL, FIXED EXPENSES	26.05	36.07	35.39
TOTAL, CASH EXPENSES	95.73	104.20	95.70
RECEIPTS LESS CASH EXPENSES	-24.75	-29.39	-20.86
CAPITAL REPLACEMENT	14.59	13.24	13.24
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-39.34	-42.63	-34.10
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	69.68	68.13	60.31
GENERAL FARM OVERHEAD	8.85	9.61	9.85
TAXES AND INSURANCE	2.07	1.90	1.86
CAPITAL REPLACEMENT	14.59	13.24	13.24
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	2.25	2.43	2.27
RETURN TO OTHER NONLAND CAPITAL 3/	6.66	5.70	5.71
LAND 4/	1.61	1.61	1.39
UNPAID LABOR (7.489 hrs)	30.38	31.35	32.69
TOTAL, ECONOMIC COSTS	136.09	133.97	127.32
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-65.11	-59.16	-52.48
TOTAL, RETURNS TO OWNED INPUTS 6/	-24.21	-18.07	-10.42

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 82--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 300 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (79.23 lbs) 1/	60.55	65.52	64.96
CULL SOWS (20.72 lbs)	8.28	8.68	7.88
TOTAL	68.83	74.20	72.84
CASH EXPENSES:			
FEED--			
GRAIN (473.6 lbs)	25.45	26.02	21.28
PROTEIN SUPPLEMENTS (120.5 lbs)	18.95	17.71	14.66
PASTURE (.174 ac)	.34	.33	.32
OTHER--			
VETERINARY AND MEDICINE	3.42	3.52	3.59
LIVESTOCK HAULING	.38	.40	.42
MARKETING	1.53	1.68	1.57
BEDDING (76 lbs)	.76	.80	.82
CUSTOM FEED MIXING	2.52	2.62	2.62
FUEL, LUBE, AND ELECTRICITY	11.02	10.70	11.35
MACHINERY AND BUILDING REPAIRS	6.06	5.87	5.85
HIRED LABOR (.087 hr)	.34	.37	.35
MANURE CREDIT	-.17	-.18	-.17
TOTAL, VARIABLE EXPENSES	70.60	69.84	62.66
GENERAL FARM OVERHEAD	5.36	3.22	3.24
TAXES AND INSURANCE	2.97	2.81	2.53
INTEREST	9.42	10.54	9.98
TOTAL, FIXED EXPENSES	17.75	16.57	15.75
TOTAL, CASH EXPENSES	88.35	86.41	78.41
RECEIPTS LESS CASH EXPENSES	-19.52	-12.21	-5.57
CAPITAL REPLACEMENT	15.32	14.14	14.11
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-34.84	-26.35	-19.68
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	70.60	69.84	62.66
GENERAL FARM OVERHEAD	5.36	3.22	3.24
TAXES AND INSURANCE	2.97	2.81	2.53
CAPITAL REPLACEMENT	15.32	14.14	14.11
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	2.09	2.27	2.12
RETURN TO OTHER NONLAND CAPITAL 3/	7.27	6.35	6.33
LAND 4/	5.77	5.13	3.71
UNPAID LABOR (5.430 hrs)	22.80	23.37	24.22
TOTAL, ECONOMIC COSTS	132.18	127.13	118.92
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-63.35	-52.93	-46.08
TOTAL, RETURNS TO OWNED INPUTS 6/	-25.42	-15.81	-9.70

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 83--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 650 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (80.39 lbs) 1/	61.56	66.55	66.04
CULL SOWS (19.61 lbs)	7.87	8.23	7.44
TOTAL	69.43	74.78	73.48
CASH EXPENSES:			
FEED--			
GRAIN (440 lbs)	23.62	24.16	19.75
PROTEIN SUPPLEMENTS (139.8 lbs)	19.73	18.62	16.04
PASTURE (.04 ac)	.16	.15	.15
OTHER--			
VETERINARY AND MEDICINE	.40	.41	.41
LIVESTOCK HAULING	.23	.24	.25
MARKETING	2.63	2.93	2.77
BEDDING (42 lbs)	.44	.46	.47
FUEL, LUBE, AND ELECTRICITY	6.09	5.78	6.08
MACHINERY AND BUILDING REPAIRS	5.03	4.86	4.86
HIRED LABOR (.194 hr)	.80	.83	.86
MANURE CREDIT	-.18	-.19	-.18
TOTAL, VARIABLE EXPENSES	58.95	58.25	51.46
GENERAL FARM OVERHEAD	3.17	2.59	2.61
TAXES AND INSURANCE	1.89	1.74	1.67
INTEREST	7.62	14.70	13.93
TOTAL, FIXED EXPENSES	12.68	19.03	18.21
TOTAL, CASH EXPENSES	71.63	77.28	69.67
RECEIPTS LESS CASH EXPENSES	-2.20	-2.50	3.81
CAPITAL REPLACEMENT	12.29	11.26	11.26
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-14.49	-13.76	-7.45
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	58.95	58.25	51.46
GENERAL FARM OVERHEAD	3.17	2.59	2.61
TAXES AND INSURANCE	1.89	1.74	1.67
CAPITAL REPLACEMENT	12.29	11.26	11.26
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.73	1.87	1.72
RETURN TO OTHER NONLAND CAPITAL 3/	5.80	4.99	4.99
LAND 4/	1.45	1.29	.96
UNPAID LABOR (4.269 hrs)	17.99	18.37	19.09
TOTAL, ECONOMIC COSTS	103.27	100.36	93.76
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-33.84	-25.58	-20.28
TOTAL, RETURNS TO OWNED INPUTS 6/	-6.87	.94	6.48

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 84--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 1,600 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (80.43 lbs) 1/	61.52	66.45	66.03
CULL SOWS (19.57 lbs)	7.83	8.20	7.43
TOTAL	69.35	74.65	73.46
CASH EXPENSES:			
FEED--			
GRAIN (435 lbs)	23.41	23.93	19.56
PROTEIN SUPPLEMENTS (135.2 lbs)	19.49	18.41	15.49
PASTURE (.013 ac)	.06	.06	.06
OTHER--			
VETERINARY AND MEDICINE	.67	.68	.69
LIVESTOCK HAULING	.19	.20	.20
MARKETING	1.16	1.28	1.21
BEDDING (16 lbs)	.17	.18	.18
FUEL, LUBE, AND ELECTRICITY	7.55	7.26	7.62
MACHINERY AND BUILDING REPAIRS	5.47	5.28	5.28
HIRED LABOR (.173 hr)	.86	.94	.97
MANURE CREDIT	-.18	-.18	-.17
TOTAL, VARIABLE EXPENSES	58.85	58.04	51.09
GENERAL FARM OVERHEAD	2.71	1.79	1.81
TAXES AND INSURANCE	2.14	1.98	1.96
INTEREST	6.96	7.77	7.37
TOTAL, FIXED EXPENSES	11.81	11.54	11.14
TOTAL, CASH EXPENSES	70.66	69.58	62.23
RECEIPTS LESS CASH EXPENSES	-1.31	5.07	11.23
CAPITAL REPLACEMENT	14.09	13.22	13.13
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-15.40	-8.15	-1.90
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	58.85	58.04	51.09
GENERAL FARM OVERHEAD	2.71	1.79	1.81
TAXES AND INSURANCE	2.14	1.98	1.96
CAPITAL REPLACEMENT	14.09	13.22	13.13
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.70	1.81	1.69
RETURN TO OTHER NONLAND CAPITAL 3/	6.61	5.78	5.78
LAND 4/	.49	.43	.32
UNPAID LABOR (2.99 hrs)	17.05	16.09	18.05
TOTAL, ECONOMIC COSTS	103.64	99.14	93.83
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-34.29	-24.49	-20.37
TOTAL, RETURNS TO OWNED INPUTS 6/	-8.44	-.38	5.47

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 85--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 3,000 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (81.73 lbs) 1/	62.22	67.04	66.96
CULL SOWS (18.27 lbs)	7.28	7.63	6.93
TOTAL	69.50	74.67	73.89
CASH EXPENSES:			
FEED--			
GRAIN (410.5 lbs)	22.38	22.82	18.63
PROTEIN SUPPLEMENTS (129.5 lbs)	17.86	16.89	14.22
PASTURE (.007 ac)	.05	.05	.05
OTHER--			
VETERINARY AND MEDICINE	.92	.94	.95
LIVESTOCK HAULING	.11	.11	.12
MARKETING	1.08	1.19	1.13
BEDDING (38 lbs)	.40	.42	.43
FUEL, LUBE, AND ELECTRICITY	5.41	5.28	5.54
MACHINERY AND BUILDING REPAIRS	4.19	4.06	4.06
HIRED LABOR (.55 hrs)	4.01	4.20	4.35
MANURE CREDIT	-.16	-.16	-.16
TOTAL, VARIABLE EXPENSES	56.25	55.80	49.32
GENERAL FARM OVERHEAD	2.56	1.77	1.79
TAXES AND INSURANCE	1.63	1.49	1.47
INTEREST	7.41	7.20	6.87
TOTAL, FIXED EXPENSES	11.60	10.46	10.13
TOTAL, CASH EXPENSES	67.85	66.26	59.45
RECEIPTS LESS CASH EXPENSES	1.65	8.41	14.44
CAPITAL REPLACEMENT	11.89	10.72	10.72
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-10.24	-2.31	3.72
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	56.25	55.80	49.32
GENERAL FARM OVERHEAD	2.56	1.77	1.79
TAXES AND INSURANCE	1.63	1.49	1.47
CAPITAL REPLACEMENT	11.89	10.72	10.72
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.52	1.66	1.51
RETURN TO OTHER NONLAND CAPITAL 3/	5.35	4.57	4.57
LAND 4/	.29	.27	.20
UNPAID LABOR (1.558 hrs)	11.94	12.17	12.66
TOTAL, ECONOMIC COSTS	91.43	88.45	82.24
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-21.93	-13.78	-8.35
TOTAL, RETURNS TO OWNED INPUTS 6/	-2.83	4.89	10.59

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 86--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 10,000 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (83.64 lbs) 1/	63.26	67.99	68.34
CULL SOWS (16.36 lbs)	6.52	6.80	6.20
TOTAL	69.78	74.79	74.54
CASH EXPENSES:			
FEED--			
GRAIN (367.5 lbs)	20.35	20.72	16.87
PROTEIN SUPPLEMENTS (116.6 lbs)	14.30	13.49	11.10
OTHER--			
VETERINARY AND MEDICINE	1.94	1.99	2.00
LIVESTOCK HAULING	.12	.13	.13
MARKETING	.44	.48	.46
CUSTOM FEED MIXING	2.49	2.55	2.53
FUEL, LUBE, AND ELECTRICITY	4.38	4.51	4.90
MACHINERY AND BUILDING REPAIRS	2.55	2.50	2.50
HIRED LABOR (1.47 hrs)	11.11	11.33	11.78
MANURE CREDIT	-.13	-.14	-.13
TOTAL, VARIABLE EXPENSES	57.55	57.56	52.14
GENERAL FARM OVERHEAD	3.09	1.76	1.80
TAXES AND INSURANCE	1.25	1.12	1.12
INTEREST	4.08	3.54	3.41
TOTAL, FIXED EXPENSES	8.42	6.42	6.33
TOTAL, CASH EXPENSES	65.97	63.98	58.47
RECEIPTS LESS CASH EXPENSES	3.81	10.81	16.07
CAPITAL REPLACEMENT	9.56	8.36	8.36
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.75	2.45	7.71
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	57.55	57.56	52.14
GENERAL FARM OVERHEAD	3.09	1.76	1.80
TAXES AND INSURANCE	1.25	1.12	1.12
CAPITAL REPLACEMENT	9.56	8.36	8.36
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.30	1.43	1.30
RETURN TO OTHER NONLAND CAPITAL 3/	4.35	3.65	3.65
LAND 4/	.03	.03	.02
UNPAID LABOR (.105 hr)	.73	.79	.81
TOTAL, ECONOMIC COSTS	77.86	74.70	69.20
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-8.08	.09	5.34
TOTAL, RETURNS TO OWNED INPUTS 6/	-1.67	5.99	11.12

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 87--FEEDER PIG PRODUCTION COSTS, PER CWT, ALL SIZES, NORTH CENTRAL, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (79.54 lbs) 1/	61.63	66.54	65.70
CULL SOWS (20.46 lbs)	8.35	8.64	7.77
TOTAL	69.98	75.18	73.47
CASH EXPENSES:			
FEED--			
GRAIN (442.9 lbs)	23.90	24.17	19.69
PROTEIN SUPPLEMENTS (132.4 lbs)	19.14	17.77	14.92
PASTURE (.043 ac)	.08	.07	.06
OTHER--			
VETERINARY AND MEDICINE	1.78	1.61	1.54
LIVESTOCK HAULING	.24	.24	.24
MARKETING	1.38	1.54	1.43
BEDDING (38 lbs)	.44	.42	.42
CUSTOM FEED MIXING	1.35	1.19	1.08
FUEL, LUBE, AND ELECTRICITY	7.76	7.05	7.26
MACHINERY AND BUILDING REPAIRS	5.05	4.73	4.67
HIRED LABOR (.274 hr)	1.42	1.87	2.10
MANURE CREDIT	-.18	-.19	-.18
TOTAL, VARIABLE EXPENSES	62.36	60.47	53.23
GENERAL FARM OVERHEAD	4.15	2.96	2.86
TAXES AND INSURANCE	2.15	1.91	1.80
INTEREST	8.49	10.98	10.07
TOTAL, FIXED EXPENSES	14.79	15.85	14.73
TOTAL, CASH EXPENSES	77.15	76.32	67.96
RECEIPTS LESS CASH EXPENSES	-7.17	-1.14	5.51
CAPITAL REPLACEMENT	13.30	11.88	11.90
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-20.47	-13.02	-6.39
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	62.36	60.47	53.23
GENERAL FARM OVERHEAD	4.15	2.96	2.86
TAXES AND INSURANCE	2.15	1.91	1.80
CAPITAL REPLACEMENT	13.30	11.88	11.90
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.81	1.89	1.72
RETURN TO OTHER NONLAND CAPITAL 3/	6.21	5.22	5.22
LAND 4/	2.06	1.50	.97
UNPAID LABOR (3.324 hrs)	17.85	16.74	17.26
TOTAL, ECONOMIC COSTS	109.89	102.57	94.96
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-39.91	-27.39	-21.49
TOTAL, RETURNS TO OWNED INPUTS 6/	-11.98	-2.04	3.68

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 88--FEEDER PIG PRODUCTION COSTS, PER CWT, ALL SIZES, SOUTHEAST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
FEEDER PIGS (86.72 lbs) 1/	62.17	66.89	69.84
CULL SOWS (13.28 lbs)	5.26	5.38	5.01
TOTAL	67.43	72.27	74.85
CASH EXPENSES:			
FEED--			
GRAIN (381.3 lbs)	23.32	23.27	18.66
PROTEIN SUPPLEMENTS (113.9 lbs)	16.42	15.82	13.10
PASTURE (.029 ac)	.67	.60	.56
OTHER--			
VETERINARY AND MEDICINE	1.15	1.18	1.19
LIVESTOCK HAULING	.01	.02	.02
MARKETING	1.91	1.95	1.82
BEDDING (14 lbs)	.19	.17	.16
CUSTOM FEED MIXING	1.86	1.96	1.92
FUEL, LUBE, AND ELECTRICITY	6.34	5.69	5.95
MACHINERY AND BUILDING REPAIRS	5.50	5.02	4.90
HIRED LABOR (.982 hr)	5.32	5.91	6.40
TOTAL, VARIABLE EXPENSES	62.69	61.59	54.68
GENERAL FARM OVERHEAD	4.15	3.20	3.27
TAXES AND INSURANCE	1.93	1.74	1.69
INTEREST	8.15	10.24	9.91
TOTAL, FIXED EXPENSES	14.23	15.18	14.87
TOTAL, CASH EXPENSES	76.92	76.77	69.55
RECEIPTS LESS CASH EXPENSES	-9.49	-4.50	5.30
CAPITAL REPLACEMENT	13.59	12.00	11.80
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-23.08	-16.50	-6.50
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	62.69	61.59	54.68
GENERAL FARM OVERHEAD	4.15	3.20	3.27
TAXES AND INSURANCE	1.93	1.74	1.69
CAPITAL REPLACEMENT	13.59	12.00	11.80
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.76	1.92	1.75
RETURN TO OTHER NONLAND CAPITAL 3/	6.26	5.25	5.15
LAND 4/	1.31	1.20	1.01
UNPAID LABOR (3.624 hrs)	19.04	17.00	16.83
TOTAL, ECONOMIC COSTS	110.73	103.90	96.18
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-43.30	-31.63	-21.33
TOTAL, RETURNS TO OWNED INPUTS 6/	-14.93	-6.26	3.41

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 89--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	47.34	48.42	44.61
TOTAL	47.34	48.42	44.61
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.6 lbs)	20.05	17.33	18.76
FEED--			
GRAIN (239.2 lbs)	12.97	13.21	10.79
PROTEIN SUPPLEMENTS (46.4 lbs)	6.81	6.31	5.17
PASTURE (.001 ac)	.02	.02	.01
OTHER--			
VETERINARY AND MEDICINE	.46	.46	.46
LIVESTOCK HAULING	.16	.16	.16
MARKETING	.39	.42	.39
BEDDING (8 lbs)	.10	.10	.10
CUSTOM FEED MIXING	.09	.08	.07
FUEL, LUBE, AND ELECTRICITY	1.38	1.15	1.18
MACHINERY AND BUILDING REPAIRS	1.66	1.58	1.57
HIRED LABOR (.073 hr)	.39	.40	.42
MANURE CREDIT	-.15	-.16	-.15
TOTAL, VARIABLE EXPENSES	44.33	41.06	38.93
GENERAL FARM OVERHEAD	1.99	2.74	2.50
TAXES AND INSURANCE	.42	.40	.42
INTEREST	5.73	7.03	6.09
TOTAL, FIXED EXPENSES	8.14	10.17	9.01
TOTAL, CASH EXPENSES	52.47	51.23	47.94
RECEIPTS LESS CASH EXPENSES	-5.13	-2.81	-3.33
CAPITAL REPLACEMENT	3.04	2.93	2.91
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.17	-5.74	-6.24
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	44.33	41.06	38.93
GENERAL FARM OVERHEAD	1.99	2.74	2.50
TAXES AND INSURANCE	.42	.40	.42
CAPITAL REPLACEMENT	3.04	2.93	2.91
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.66	.72	.68
RETURN TO OTHER NONLAND CAPITAL 3/	1.24	1.16	1.16
LAND 4/	.09	.07	.05
UNPAID LABOR (.268 hr)	1.42	1.37	1.38
TOTAL, ECONOMIC COSTS	53.19	50.45	48.03
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-5.85	-2.03	-3.42
TOTAL, RETURNS TO OWNED INPUTS 6/	-2.44	1.29	-.15

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 90--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 140 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	49.46	47.94	45.40
TOTAL	49.46	47.94	45.40
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (23.1 lbs)	18.16	17.34	19.48
FEED--			
GRAIN (241.3 lbs)	13.18	13.46	10.99
PROTEIN SUPPLEMENTS (44.7 lbs)	7.03	6.58	5.44
PASTURE (.005 ac)	.10	.11	.11
OTHER--			
VETERINARY AND MEDICINE	.71	.72	.73
LIVESTOCK HAULING	.08	.08	.08
MARKETING	.62	.69	.66
BEDDING (18 lbs)	.18	.18	.19
CUSTOM FEED MIXING	.73	.78	.80
FUEL, LUBE, AND ELECTRICITY	1.66	1.44	1.50
MACHINERY AND BUILDING REPAIRS	1.94	1.87	1.87
HIRED LABOR (.036 hr)	.16	.16	.16
MANURE CREDIT	-.12	-.13	-.12
TOTAL, VARIABLE EXPENSES	44.43	43.28	41.89
GENERAL FARM OVERHEAD	5.48	6.76	6.56
TAXES AND INSURANCE	.50	.50	.49
INTEREST	10.51	15.68	14.32
TOTAL, FIXED EXPENSES	16.49	22.94	21.37
TOTAL, CASH EXPENSES	60.92	66.22	63.26
RECEIPTS LESS CASH EXPENSES	-11.46	-18.28	-17.86
CAPITAL REPLACEMENT	3.84	3.76	3.77
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-15.30	-22.04	-21.63
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	44.43	43.28	41.89
GENERAL FARM OVERHEAD	5.48	6.76	6.56
TAXES AND INSURANCE	.50	.50	.49
CAPITAL REPLACEMENT	3.84	3.76	3.77
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.69	1.00	.99
RETURN TO OTHER NONLAND CAPITAL 3/	1.59	1.56	1.56
LAND 4/	.34	.34	.29
UNPAID LABOR (.7 hr)	2.86	2.94	3.07
TOTAL, ECONOMIC COSTS	59.73	60.14	58.62
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-10.27	-12.20	-13.22
TOTAL, RETURNS TO OWNED INPUTS 6/	-4.79	-6.36	-7.31

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 91--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 300 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	46.47	48.31	44.38
TOTAL	46.47	48.31	44.38
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.5 lbs)	20.46	17.36	18.76
FEED--			
GRAIN (241.8 lbs)	13.02	13.28	10.85
PROTEIN SUPPLEMENTS (44.6 lbs)	7.04	6.57	5.43
PASTURE (.001 ac)	.03	.03	.03
OTHER--			
VETERINARY AND MEDICINE	.48	.48	.49
LIVESTOCK HAULING	.24	.25	.26
MARKETING	.42	.46	.44
BEDDING (8 lbs)	.08	.09	.09
FUEL, LUBE, AND ELECTRICITY	1.61	1.35	1.38
MACHINERY AND BUILDING REPAIRS	1.78	1.70	1.70
HIRED LABOR (.111 hr)	.47	.48	.50
MANURE CREDIT	-.14	-.15	-.14
TOTAL, VARIABLE EXPENSES	45.49	41.90	39.79
GENERAL FARM OVERHEAD	2.40	3.31	3.19
TAXES AND INSURANCE	.43	.41	.41
INTEREST	6.36	6.80	6.16
TOTAL, FIXED EXPENSES	9.19	10.52	9.76
TOTAL, CASH EXPENSES	54.68	52.42	49.55
RECEIPTS LESS CASH EXPENSES	-8.21	-4.11	-5.17
CAPITAL REPLACEMENT	3.03	2.94	2.94
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-11.24	-7.05	-8.11
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	45.49	41.90	39.79
GENERAL FARM OVERHEAD	2.40	3.31	3.19
TAXES AND INSURANCE	.43	.41	.41
CAPITAL REPLACEMENT	3.03	2.94	2.94
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.69	.71	.68
RETURN TO OTHER NONLAND CAPITAL 3/	1.22	1.16	1.16
LAND 4/	.15	.13	.10
UNPAID LABOR (.405 hr)	1.72	1.74	1.81
TOTAL, ECONOMIC COSTS	55.13	52.30	50.08
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-8.66	-3.99	-5.70
TOTAL, RETURNS TO OWNED INPUTS 6/	-4.88	-.25	-1.95

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 92--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 650 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	47.24	48.54	44.54
TOTAL	47.24	48.54	44.54
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.4 lbs)	20.10	17.24	18.57
FEED--			
GRAIN (242 lbs)	12.99	13.27	10.85
PROTEIN SUPPLEMENTS (44.7 lbs)	6.99	6.50	5.36
OTHER--			
VETERINARY AND MEDICINE	.41	.42	.43
LIVESTOCK HAULING	.09	.09	.09
MARKETING	.37	.41	.39
BEDDING (14 lbs)	.14	.15	.16
FUEL, LUBE, AND ELECTRICITY	1.52	1.31	1.35
MACHINERY AND BUILDING REPAIRS	1.52	1.44	1.44
HIRED LABOR (.073 hr)	.31	.32	.33
MANURE CREDIT	-.14	-.15	-.14
TOTAL, VARIABLE EXPENSES	44.30	41.00	38.83
GENERAL FARM OVERHEAD	1.03	3.00	2.82
TAXES AND INSURANCE	.35	.35	.34
INTEREST	5.19	9.54	8.44
TOTAL, FIXED EXPENSES	6.57	12.89	11.60
TOTAL, CASH EXPENSES	50.87	53.89	50.43
RECEIPTS LESS CASH EXPENSES	-3.63	-5.35	-5.89
CAPITAL REPLACEMENT	2.49	2.42	2.42
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.12	-7.77	-8.31
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	44.30	41.00	38.83
GENERAL FARM OVERHEAD	1.03	3.00	2.82
TAXES AND INSURANCE	.35	.35	.34
CAPITAL REPLACEMENT	2.49	2.42	2.42
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.66	.69	.66
RETURN TO OTHER NONLAND CAPITAL 3/	1.01	.94	.94
LAND 4/	.04	.03	.03
UNPAID LABOR (.33 hr)	1.39	1.42	1.48
TOTAL, ECONOMIC COSTS	51.27	49.85	47.52
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-4.03	-1.31	-2.98
TOTAL, RETURNS TO OWNED INPUTS 6/	-.93	1.77	.13

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 93--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 1,600 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	47.28	48.53	44.55
TOTAL	47.28	48.53	44.55
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.5 lbs)	20.15	17.30	18.58
FEED--			
GRAIN (240.8 lbs)	12.96	13.24	10.82
PROTEIN SUPPLEMENTS (45.2 lbs)	6.91	6.44	5.30
OTHER--			
VETERINARY AND MEDICINE	.43	.44	.45
LIVESTOCK HAULING	.18	.19	.20
MARKETING	.36	.40	.38
BEDDING (6 lbs)	.08	.08	.08
FUEL, LUBE, AND ELECTRICITY	1.28	1.15	1.20
MACHINERY AND BUILDING REPAIRS	1.71	1.65	1.65
HIRED LABOR (.083 hr)	.47	.48	.50
MANURE CREDIT	-.14	-.15	-.14
TOTAL, VARIABLE EXPENSES	44.39	41.22	39.02
GENERAL FARM OVERHEAD	1.20	1.56	1.47
TAXES AND INSURANCE	.46	.46	.45
INTEREST	4.74	5.05	4.47
TOTAL, FIXED EXPENSES	6.40	7.07	6.39
TOTAL, CASH EXPENSES	50.79	48.29	45.41
RECEIPTS LESS CASH EXPENSES	-3.51	.24	-.86
CAPITAL REPLACEMENT	3.44	3.38	3.38
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.95	-3.14	-4.24
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	44.39	41.22	39.02
GENERAL FARM OVERHEAD	1.20	1.56	1.47
TAXES AND INSURANCE	.46	.46	.45
CAPITAL REPLACEMENT	3.44	3.38	3.38
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.66	.69	.65
RETURN TO OTHER NONLAND CAPITAL 3/	1.38	1.33	1.33
LAND 4/	.03	.03	.02
UNPAID LABOR (.17 hr)	.97	.99	1.02
TOTAL, ECONOMIC COSTS	52.53	49.66	47.34
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-5.25	-1.13	-2.79
TOTAL, RETURNS TO OWNED INPUTS 6/	-2.21	1.91	.23

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 94--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 3,000 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	47.26	48.49	44.57
TOTAL	47.26	48.49	44.57
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.7 lbs)	20.35	17.36	18.73
FEED--			
GRAIN (235.9 lbs)	12.82	13.08	10.67
PROTEIN SUPPLEMENTS (51 lbs)	6.37	5.95	4.87
OTHER--			
VETERINARY AND MEDICINE	.31	.32	.32
LIVESTOCK HAULING	.17	.17	.18
MARKETING	.35	.39	.37
BEDDING (4 lbs)	.05	.05	.06
FUEL, LUBE, AND ELECTRICITY	1.06	.94	.97
MACHINERY AND BUILDING REPAIRS	1.57	1.51	1.51
HIRED LABOR (.043 hr)	.32	.33	.34
MANURE CREDIT	-.13	-.14	-.13
TOTAL, VARIABLE EXPENSES	43.24	39.96	37.89
GENERAL FARM OVERHEAD	1.23	1.67	1.57
TAXES AND INSURANCE	.40	.40	.40
INTEREST	5.04	4.67	4.14
TOTAL, FIXED EXPENSES	6.67	6.74	6.11
TOTAL, CASH EXPENSES	49.91	46.70	44.00
RECEIPTS LESS CASH EXPENSES	-2.65	1.79	.57
CAPITAL REPLACEMENT	2.79	2.73	2.72
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.44	-.94	-2.15
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	43.24	39.96	37.89
GENERAL FARM OVERHEAD	1.23	1.67	1.57
TAXES AND INSURANCE	.40	.40	.40
CAPITAL REPLACEMENT	2.79	2.73	2.72
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.64	.67	.64
RETURN TO OTHER NONLAND CAPITAL 3/	1.17	1.13	1.13
LAND 4/	.02	.02	.01
UNPAID LABOR (.128 hr)	.99	1.00	1.04
TOTAL, ECONOMIC COSTS	50.48	47.58	45.40
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-3.22	.91	-.83
TOTAL, RETURNS TO OWNED INPUTS 6/	-.40	3.73	1.99

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 95--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 10,000 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	47.23	48.44	44.59
TOTAL	47.23	48.44	44.59
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (23.1 lbs)	20.60	17.45	18.95
FEED--			
GRAIN (232.06 lbs)	12.78	13.02	10.60
PROTEIN SUPPLEMENTS (49.3 lbs)	6.01	5.62	4.52
OTHER--			
VETERINARY AND MEDICINE	.47	.48	.48
LIVESTOCK HAULING	.14	.14	.14
MARKETING	.20	.22	.20
BEDDING (2 lbs)	.03	.03	.03
FUEL, LUBE, AND ELECTRICITY	.78	.71	.74
MACHINERY AND BUILDING REPAIRS	1.40	1.36	1.36
HIRED LABOR (.077 hr)	.58	.59	.62
MANURE CREDIT	-.24	-.26	-.24
TOTAL, VARIABLE EXPENSES	42.75	39.36	37.40
GENERAL FARM OVERHEAD	1.77	1.70	1.60
TAXES AND INSURANCE	.38	.37	.37
INTEREST	2.76	2.30	2.04
TOTAL, FIXED EXPENSES	4.91	4.37	4.01
TOTAL, CASH EXPENSES	47.66	43.73	41.41
RECEIPTS LESS CASH EXPENSES	-.43	4.71	3.18
CAPITAL REPLACEMENT	2.59	2.56	2.55
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-3.02	2.15	.63
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	42.75	39.36	37.40
GENERAL FARM OVERHEAD	1.77	1.70	1.60
TAXES AND INSURANCE	.38	.37	.37
CAPITAL REPLACEMENT	2.59	2.56	2.55
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.63	.65	.62
RETURN TO OTHER NONLAND CAPITAL 3/	1.07	1.03	1.03
LAND 4/	.01	.01	.01
UNPAID LABOR (.081 hr)	.63	.63	.66
TOTAL, ECONOMIC COSTS	49.83	46.31	44.24
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-2.60	2.13	.35
TOTAL, RETURNS TO OWNED INPUTS 6/	-.26	4.45	2.67

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 96--FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, ALL SIZES, NORTH CENTRAL, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	47.40	48.50	44.58
TOTAL	47.40	48.50	44.58
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.1 lbs)	19.67	17.20	18.41
FEED--			
GRAIN (239.6 lbs)	12.74	13.02	10.65
PROTEIN SUPPLEMENTS (46.2 lbs)	6.84	6.30	5.16
OTHER--			
VETERINARY AND MEDICINE	.47	.47	.47
LIVESTOCK HAULING	.17	.17	.18
MARKETING	.40	.43	.40
BEDDING (10.01 lbs)	.11	.11	.11
FUEL, LUBE, AND ELECTRICITY	1.38	1.15	1.17
MACHINERY AND BUILDING REPAIRS	1.68	1.58	1.57
HIRED LABOR (.07 hr)	.38	.38	.40
MANURE CREDIT	-.17	-.19	-.18
TOTAL, VARIABLE EXPENSES	43.67	40.62	38.34
GENERAL FARM OVERHEAD	1.95	2.72	2.49
TAXES AND INSURANCE	.42	.40	.39
INTEREST	5.73	7.07	6.12
TOTAL, FIXED EXPENSES	8.10	10.19	9.00
TOTAL, CASH EXPENSES	51.77	50.81	47.34
RECEIPTS LESS CASH EXPENSES	-4.37	-2.31	-2.76
CAPITAL REPLACEMENT	3.01	2.90	2.89
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-7.38	-5.21	-5.65
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	43.67	40.62	38.34
GENERAL FARM OVERHEAD	1.95	2.72	2.49
TAXES AND INSURANCE	.42	.40	.39
CAPITAL REPLACEMENT	3.01	2.90	2.89
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.66	.68	.65
RETURN TO OTHER NONLAND CAPITAL 3/	1.25	1.17	1.16
LAND 4/	.06	.05	.03
UNPAID LABOR (.261 hr)	1.40	1.36	1.37
TOTAL, ECONOMIC COSTS	52.42	49.90	47.32
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-5.02	-1.40	-2.74
TOTAL, RETURNS TO OWNED INPUTS 6/	-1.65	1.86	.47

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 97--FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, ALL SIZES, SOUTHEAST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	46.98	47.98	44.80
TOTAL	46.98	47.98	44.80
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (25.7 lbs)	22.22	18.12	20.82
FEED--			
GRAIN (237 lbs)	14.30	14.40	11.60
PROTEIN SUPPLEMENTS (47.3 lbs)	6.67	6.36	5.21
PASTURE (.005 ac)	.13	.11	.10
OTHER--			
VETERINARY AND MEDICINE	.40	.40	.40
LIVESTOCK HAULING	.06	.08	.08
MARKETING	.35	.37	.35
BEDDING (2 lbs)	.02	.02	.02
CUSTOM FEED MIXING	.58	.53	.50
FUEL, LUBE, AND ELECTRICITY	1.33	1.16	1.21
MACHINERY AND BUILDING REPAIRS	1.59	1.56	1.57
HIRED LABOR (.086 hr)	.47	.49	.52
TOTAL, VARIABLE EXPENSES	48.12	43.60	42.38
GENERAL FARM OVERHEAD	2.19	2.81	2.61
TAXES AND INSURANCE	.44	.45	.44
INTEREST	5.70	6.77	5.92
TOTAL, FIXED EXPENSES	8.33	10.03	8.97
TOTAL, CASH EXPENSES	56.45	53.63	51.35
RECEIPTS LESS CASH EXPENSES	-9.47	-5.65	-6.55
CAPITAL REPLACEMENT	3.18	3.09	3.10
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-12.65	-8.74	-9.65
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	48.12	43.60	42.38
GENERAL FARM OVERHEAD	2.19	2.81	2.61
TAXES AND INSURANCE	.44	.45	.44
CAPITAL REPLACEMENT	3.18	3.09	3.10
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.72	.90	.87
RETURN TO OTHER NONLAND CAPITAL 3/	1.21	1.17	1.18
LAND 4/	.27	.23	.19
UNPAID LABOR (.304 hr)	1.56	1.43	1.42
TOTAL, ECONOMIC COSTS	57.69	53.68	52.19
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-10.71	-5.70	-7.39
TOTAL, RETURNS TO OWNED INPUTS 6/	-6.95	-1.97	-3.73

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 98--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.41 lbs) 1/	44.66	45.79	42.10
CULL SOWS (5.59 lbs)	2.26	2.35	2.12
TOTAL	46.92	48.14	44.22
CASH EXPENSES:			
FEED--			
GRAIN (348.6 lbs)	18.85	19.22	15.69
PROTEIN SUPPLEMENTS (83.6 lbs)	12.19	11.26	9.13
PASTURE (.007 ac)	.04	.04	.03
OTHER--			
VETERINARY AND MEDICINE	.53	.54	.53
LIVESTOCK HAULING	.13	.13	.13
MARKETING	.33	.35	.33
BEDDING (12 lbs)	.15	.15	.15
FUEL, LUBE, AND ELECTRICITY	1.96	1.81	1.88
MACHINERY AND BUILDING REPAIRS	2.45	2.34	2.33
HIRED LABOR (.203 hr)	1.08	1.23	1.34
MANURE CREDIT	-.19	-.21	-.20
TOTAL, VARIABLE EXPENSES	37.52	36.86	31.34
GENERAL FARM OVERHEAD	2.47	2.37	2.14
TAXES AND INSURANCE	.78	.70	.71
INTEREST	5.65	7.00	6.03
TOTAL, FIXED EXPENSES	8.90	10.07	8.88
TOTAL, CASH EXPENSES	46.42	46.93	40.22
RECEIPTS LESS CASH EXPENSES	.50	1.21	4.00
CAPITAL REPLACEMENT	6.19	5.68	5.61
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.69	-4.47	-1.61
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	37.52	36.86	31.34
GENERAL FARM OVERHEAD	2.47	2.37	2.14
TAXES AND INSURANCE	.78	.70	.71
CAPITAL REPLACEMENT	6.19	5.68	5.61
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.93	1.01	.88
RETURN TO OTHER NONLAND CAPITAL 3/	2.52	2.24	2.21
LAND 4/	.36	.29	.20
UNPAID LABOR (.825 hr)	4.78	4.50	4.52
TOTAL, ECONOMIC COSTS	55.55	53.65	47.61
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-8.63	-5.51	-3.39
TOTAL, RETURNS TO OWNED INPUTS 6/	-.04	2.53	4.42

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 99--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 140 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.7 lbs) 1/	44.43	45.72	42.27
CULL SOWS (5.3 lbs)	2.13	2.21	2.01
TOTAL	46.56	47.93	44.28
CASH EXPENSES:			
FEED--			
GRAIN (355.26 lbs)	19.32	19.74	16.12
PROTEIN SUPPLEMENTS (80.06 lbs)	12.69	11.86	9.80
PASTURE (.029 ac)	.14	.15	.15
OTHER--			
VETERINARY AND MEDICINE	.57	.58	.59
LIVESTOCK HAULING	.15	.15	.16
MARKETING	.48	.53	.50
BEDDING (18 lbs)	.18	.18	.20
FUEL, LUBE, AND ELECTRICITY	2.32	2.07	2.16
MACHINERY AND BUILDING REPAIRS	2.86	2.75	2.75
HIRED LABOR (.113 hr)	.43	.46	.48
MANURE CREDIT	-.17	-.17	-.17
TOTAL, VARIABLE EXPENSES	38.97	38.30	32.74
GENERAL FARM OVERHEAD	5.47	6.44	6.10
TAXES AND INSURANCE	.93	.88	.84
INTEREST	9.89	15.68	13.96
TOTAL, FIXED EXPENSES	16.29	23.00	20.90
TOTAL, CASH EXPENSES	55.26	61.30	53.64
RECEIPTS LESS CASH EXPENSES	-8.70	-13.37	-9.36
CAPITAL REPLACEMENT	7.30	6.88	6.86
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-16.00	-20.25	-16.22
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	38.97	38.30	32.74
GENERAL FARM OVERHEAD	5.47	6.44	6.10
TAXES AND INSURANCE	.93	.88	.84
CAPITAL REPLACEMENT	7.30	6.88	6.86
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.07	1.16	1.03
RETURN TO OTHER NONLAND CAPITAL 3/	3.01	2.72	2.71
LAND 4/	1.05	.98	.76
UNPAID LABOR (2.148 hrs)	9.21	9.21	9.55
TOTAL, ECONOMIC COSTS	67.01	66.57	60.59
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-20.45	-18.64	-16.31
TOTAL, RETURNS TO OWNED INPUTS 6/	-6.11	-4.57	-2.26

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 100--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 300 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.02 lbs) 1/	44.82	45.66	42.10
CULL SOWS (5.98 lbs)	2.39	2.50	2.27
TOTAL	47.21	48.16	44.37
CASH EXPENSES:			
FEED--			
GRAIN (353.7 lbs)	19.00	19.40	15.85
PROTEIN SUPPLEMENTS (80.4 lbs)	12.70	11.83	9.78
PASTURE (.016 ac)	.07	.07	.07
OTHER--			
VETERINARY AND MEDICINE	.65	.67	.67
LIVESTOCK HAULING	.19	.20	.21
MARKETING	.36	.40	.38
BEDDING (22 lbs)	.22	.23	.24
FUEL, LUBE, AND ELECTRICITY	1.89	1.69	1.75
MACHINERY AND BUILDING REPAIRS	2.57	2.48	2.49
HIRED LABOR (.091 hr)	.39	.39	.41
MANURE CREDIT	-.18	-.19	-.18
TOTAL, VARIABLE EXPENSES	37.86	37.17	31.67
GENERAL FARM OVERHEAD	3.37	3.00	2.83
TAXES AND INSURANCE	.81	.76	.73
INTEREST	6.46	6.84	6.08
TOTAL, FIXED EXPENSES	10.64	10.60	9.64
TOTAL, CASH EXPENSES	48.50	47.77	41.31
RECEIPTS LESS CASH EXPENSES	-1.29	.39	3.06
CAPITAL REPLACEMENT	7.10	6.65	6.67
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.39	-6.26	-3.61
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	37.86	37.17	31.67
GENERAL FARM OVERHEAD	3.37	3.00	2.83
TAXES AND INSURANCE	.81	.76	.73
CAPITAL REPLACEMENT	7.10	6.65	6.67
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.98	1.07	.94
RETURN TO OTHER NONLAND CAPITAL 3/	2.74	2.50	2.50
LAND 4/	.62	.55	.41
UNPAID LABOR (1.49 hrs)	6.35	6.44	6.69
TOTAL, ECONOMIC COSTS	59.83	58.14	52.44
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-12.62	-9.98	-8.07
TOTAL, RETURNS TO OWNED INPUTS 6/	-1.93	.58	2.47

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 101--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 650 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.23 lbs) 1/	44.56	45.75	41.98
CULL SOWS (5.77 lbs)	2.32	2.42	2.19
TOTAL	46.88	48.17	44.17
CASH EXPENSES:			
FEED--			
GRAIN (353.25 lbs)	18.93	19.34	15.82
PROTEIN SUPPLEMENTS (81 lbs)	12.80	11.93	9.66
PASTURE (.009 ac)	.04	.04	.04
OTHER--			
VETERINARY AND MEDICINE	.72	.73	.74
LIVESTOCK HAULING	.12	.13	.13
MARKETING	.35	.39	.37
BEDDING (18 lbs)	.19	.20	.21
FUEL, LUBE, AND ELECTRICITY	2.23	2.01	2.07
MACHINERY AND BUILDING REPAIRS	2.44	2.35	2.35
HIRED LABOR (.118 hr)	.49	.51	.53
MANURE CREDIT	-.19	-.20	-.19
TOTAL, VARIABLE EXPENSES	38.12	37.43	31.73
GENERAL FARM OVERHEAD	1.88	2.69	2.53
TAXES AND INSURANCE	.73	.66	.64
INTEREST	5.15	9.47	8.37
TOTAL, FIXED EXPENSES	7.76	12.82	11.54
TOTAL, CASH EXPENSES	45.88	50.25	43.27
RECEIPTS LESS CASH EXPENSES	1.00	-2.08	.90
CAPITAL REPLACEMENT	6.20	5.78	5.78
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.20	-7.86	-4.88
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	38.12	37.43	31.73
GENERAL FARM OVERHEAD	1.88	2.69	2.53
TAXES AND INSURANCE	.73	.66	.64
CAPITAL REPLACEMENT	6.20	5.78	5.78
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.93	1.02	.88
RETURN TO OTHER NONLAND CAPITAL 3/	2.41	2.16	2.16
LAND 4/	.40	.36	.26
UNPAID LABOR (.952 hr)	4.06	4.12	4.28
TOTAL, ECONOMIC COSTS	54.73	54.22	48.26
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-7.85	-6.05	-4.09
TOTAL, RETURNS TO OWNED INPUTS 6/	-.05	1.61	3.49

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 102--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 1,600 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.4 lbs) 1/	44.64	45.82	42.06
CULL SOWS (5.6 lbs)	2.25	2.35	2.12
TOTAL	46.89	48.17	44.18
CASH EXPENSES:			
FEED--			
GRAIN (345.8 lbs)	18.57	18.97	15.51
PROTEIN SUPPLEMENTS (89.4 lbs)	12.43	11.62	9.63
PASTURE (.001 ac)	.01	.01	.01
OTHER--			
VETERINARY AND MEDICINE	.29	.30	.30
LIVESTOCK HAULING	.09	.09	.11
MARKETING	.33	.37	.35
BEDDING (14 lbs)	.14	.15	.15
FUEL, LUBE, AND ELECTRICITY	1.75	1.62	1.69
MACHINERY AND BUILDING REPAIRS	2.47	2.40	2.40
HIRED LABOR (.225 hr)	1.28	1.30	1.35
MANURE CREDIT	-.18	-.19	-.18
TOTAL, VARIABLE EXPENSES	37.18	36.64	31.32
GENERAL FARM OVERHEAD	1.61	1.31	1.23
TAXES AND INSURANCE	.80	.76	.76
INTEREST	4.70	5.01	4.43
TOTAL, FIXED EXPENSES	7.11	7.08	6.42
TOTAL, CASH EXPENSES	44.29	43.72	37.74
RECEIPTS LESS CASH EXPENSES	2.60	4.45	6.44
CAPITAL REPLACEMENT	6.00	5.64	5.65
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-3.40	-1.19	.79
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	37.18	36.64	31.32
GENERAL FARM OVERHEAD	1.61	1.31	1.23
TAXES AND INSURANCE	.80	.76	.76
CAPITAL REPLACEMENT	6.00	5.64	5.65
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.91	1.00	.87
RETURN TO OTHER NONLAND CAPITAL 3/	2.58	2.36	2.36
LAND 4/	.05	.05	.03
UNPAID LABOR (.697 hr)	4.01	4.06	4.22
TOTAL, ECONOMIC COSTS	53.14	51.82	46.44
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-6.25	-3.65	-2.26
TOTAL, RETURNS TO OWNED INPUTS 6/	1.30	3.82	5.22

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 103--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 3,000 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.63 lbs) 1/	44.73	45.90	42.17
CULL SOWS (5.37 lbs)	2.15	2.25	2.04
TOTAL	46.88	48.15	44.21
CASH EXPENSES:			
FEED--			
GRAIN (348.1 lbs)	18.86	19.24	15.71
PROTEIN SUPPLEMENTS (84.9 lbs)	10.96	10.16	8.07
OTHER--			
VETERINARY AND MEDICINE	.36	.36	.36
LIVESTOCK HAULING	.06	.07	.07
MARKETING	.20	.22	.20
BEDDING (4 lbs)	.05	.05	.05
FUEL, LUBE, AND ELECTRICITY	1.73	1.65	1.74
MACHINERY AND BUILDING REPAIRS	2.29	2.26	2.27
HIRED LABOR (.225 hr)	1.67	1.73	1.79
MANURE CREDIT	-.17	-.18	-.17
TOTAL, VARIABLE EXPENSES	36.01	35.56	30.09
GENERAL FARM OVERHEAD	1.26	1.15	1.08
TAXES AND INSURANCE	.68	.64	.63
INTEREST	5.00	4.64	4.11
TOTAL, FIXED EXPENSES	6.94	6.43	5.82
TOTAL, CASH EXPENSES	42.95	41.99	35.91
RECEIPTS LESS CASH EXPENSES	3.93	6.16	8.30
CAPITAL REPLACEMENT	5.08	4.82	4.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-1.15	1.34	3.48
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	36.01	35.56	30.09
GENERAL FARM OVERHEAD	1.26	1.15	1.08
TAXES AND INSURANCE	.68	.64	.63
CAPITAL REPLACEMENT	5.08	4.82	4.82
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.87	.95	.82
RETURN TO OTHER NONLAND CAPITAL 3/	2.18	1.97	1.97
LAND 4/	.04	.04	.03
UNPAID LABOR (.421 hr)	3.28	3.31	3.44
TOTAL, ECONOMIC COSTS	49.40	48.44	42.88
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-2.52	-.29	1.33
TOTAL, RETURNS TO OWNED INPUTS 6/	3.85	5.98	7.59

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 104--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 10,000 HEAD, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.66 lbs) 1/	44.72	45.87	42.21
CULL SOWS (5.34 lbs)	2.14	2.23	2.02
TOTAL	46.86	48.10	44.23
CASH EXPENSES:			
FEED--			
GRAIN (336.5 lbs)	18.43	18.79	15.32
PROTEIN SUPPLEMENTS (82.9 lbs)	10.25	9.52	7.51
OTHER--			
VETERINARY AND MEDICINE	.62	.64	.64
LIVESTOCK HAULING	.12	.13	.14
MARKETING	.20	.22	.20
BEDDING (2 lbs)	.04	.04	.03
FUEL, LUBE, AND ELECTRICITY	1.92	1.90	2.00
MACHINERY AND BUILDING REPAIRS	1.81	1.78	1.78
HIRED LABOR (.463 hr)	3.56	3.59	3.73
MANURE CREDIT	-.33	-.35	-.33
TOTAL, VARIABLE EXPENSES	36.62	36.26	31.02
GENERAL FARM OVERHEAD	1.75	1.14	1.07
TAXES AND INSURANCE	.61	.58	.58
INTEREST	2.74	2.28	2.03
TOTAL, FIXED EXPENSES	5.10	4.00	3.68
TOTAL, CASH EXPENSES	41.72	40.26	34.70
RECEIPTS LESS CASH EXPENSES	5.14	7.84	9.53
CAPITAL REPLACEMENT	4.61	4.25	4.25
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	.53	3.59	5.28
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	36.62	36.26	31.02
GENERAL FARM OVERHEAD	1.75	1.14	1.07
TAXES AND INSURANCE	.61	.58	.58
CAPITAL REPLACEMENT	4.61	4.25	4.25
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.83	.91	.79
RETURN TO OTHER NONLAND CAPITAL 3/	1.95	1.75	1.75
LAND 4/	.02	.02	.01
UNPAID LABOR (.128 hr)	1.00	1.00	1.04
TOTAL, ECONOMIC COSTS	47.39	45.91	40.51
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-.53	2.19	3.72
TOTAL, RETURNS TO OWNED INPUTS 6/	3.27	5.87	7.31

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 105--FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, ALL SIZES, NORTH CENTRAL, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (94.2 lbs) 1/	44.59	45.75	41.98
CULL SOWS (5.8 lbs)	2.34	2.44	2.20
TOTAL	46.93	48.19	44.18
CASH EXPENSES:			
FEED--			
GRAIN (349 lbs)	18.56	18.96	15.52
PROTEIN SUPPLEMENTS (83.2 lbs)	12.20	11.22	9.07
PASTURE (.006 ac)	.03	.03	.02
OTHER--			
VETERINARY AND MEDICINE	.53	.53	.52
LIVESTOCK HAULING	.14	.14	.14
MARKETING	.32	.35	.32
BEDDING (14 lbs)	.16	.16	.16
FUEL, LUBE, AND ELECTRICITY	1.92	1.78	1.84
MACHINERY AND BUILDING REPAIRS	2.49	2.39	2.37
HIRED LABOR (.17 hr)	.92	1.04	1.13
MANURE CREDIT	-.22	-.24	-.23
TOTAL, VARIABLE EXPENSES	37.05	36.36	30.86
GENERAL FARM OVERHEAD	2.45	2.36	2.13
TAXES AND INSURANCE	.77	.71	.70
INTEREST	5.65	7.03	6.05
TOTAL, FIXED EXPENSES	8.87	10.10	8.88
TOTAL, CASH EXPENSES	45.92	46.46	39.74
RECEIPTS LESS CASH EXPENSES	1.01	1.73	4.44
CAPITAL REPLACEMENT	6.35	5.82	5.75
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.34	-4.09	-1.31
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	37.05	36.36	30.86
GENERAL FARM OVERHEAD	2.45	2.36	2.13
TAXES AND INSURANCE	.77	.71	.70
CAPITAL REPLACEMENT	6.35	5.82	5.75
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.93	1.00	.87
RETURN TO OTHER NONLAND CAPITAL 3/	2.57	2.28	2.26
LAND 4/	.34	.27	.17
UNPAID LABOR (.883 hr)	4.82	4.58	4.60
TOTAL, ECONOMIC COSTS	55.28	53.38	47.34
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-8.35	-5.19	-3.16
TOTAL, RETURNS TO OWNED INPUTS 6/	.31	2.94	4.74

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 106--FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, ALL SIZES, SOUTHEAST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MARKET HOGS (95.91 lbs) 1/	45.18	46.08	42.96
CULL SOWS (4.09 lbs)	1.62	1.66	1.54
TOTAL	46.80	47.74	44.50
CASH EXPENSES:			
FEED--			
GRAIN (346.3 lbs)	20.96	21.06	16.95
PROTEIN SUPPLEMENTS (86.8 lbs)	12.12	11.59	9.54
PASTURE (.014 ac)	.14	.12	.11
OTHER--			
VETERINARY AND MEDICINE	.59	.60	.61
LIVESTOCK HAULING	.02	.03	.06
MARKETING	.36	.37	.34
BEDDING (4 lbs)	.05	.05	.05
FUEL, LUBE, AND ELECTRICITY	2.20	2.01	2.11
MACHINERY AND BUILDING REPAIRS	2.12	2.02	2.00
HIRED LABOR (.434 hr)	2.30	2.57	2.80
TOTAL, VARIABLE EXPENSES	40.86	40.42	34.57
GENERAL FARM OVERHEAD	2.59	2.41	2.21
TAXES AND INSURANCE	.73	.68	.67
INTEREST	5.69	6.74	5.87
TOTAL, FIXED EXPENSES	9.01	9.83	8.75
TOTAL, CASH EXPENSES	49.87	50.25	43.32
RECEIPTS LESS CASH EXPENSES	-3.07	-2.51	1.18
CAPITAL REPLACEMENT	5.04	4.68	4.68
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.11	-7.19	-3.50
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	40.86	40.42	34.57
GENERAL FARM OVERHEAD	2.59	2.41	2.21
TAXES AND INSURANCE	.73	.68	.67
CAPITAL REPLACEMENT	5.04	4.68	4.68
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.98	1.09	.94
RETURN TO OTHER NONLAND CAPITAL 3/	2.19	1.94	1.93
LAND 4/	.51	.45	.37
UNPAID LABOR (.823 hr)	4.35	3.94	3.93
TOTAL, ECONOMIC COSTS	57.25	55.61	49.30
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-10.45	-7.87	-4.80
TOTAL, RETURNS TO OWNED INPUTS 6/	-2.42	-.45	2.37

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 107--U.S. SHEEP PRODUCTION COSTS, PER EWE, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
SLAUGHTER LAMBS (31.9 lbs) 1/	16.39	19.93	21.58
FEEDER LAMBS (26.5 lbs)	12.30	15.02	18.48
CULL EWES (29 lbs)	2.17	3.20	6.06
WOOL (10.01 lbs)	6.72	8.81	6.84
WOOL PAYMENT	7.75	9.47	10.99
UNSHORN LAMB PAYMENT	1.56	1.81	2.21
TOTAL	46.89	58.24	66.16
CASH EXPENSES:			
FEED--			
GRAIN (.735 bu)	2.38	2.52	2.01
PROTEIN SUPPLEMENTS (.019 ton)	3.60	3.39	3.40
SALT AND MINERALS (7 lbs)	.38	.38	.40
HAY (.102 ton)	3.65	3.74	3.90
PASTURE (.391 AUM)	3.16	3.43	3.31
PRIVATE RANGE (1.427 AUM)	0	0	0
PUBLIC GRAZING (.457 AM)	.65	.65	.62
PUBLIC GRAZING (.027 AUM)	.05	.06	.05
CROP RESIDUE (.146 AUM)	.06	.06	.05
OTHER--			
VETERINARY AND MEDICINE	.99	1.04	1.05
LIVESTOCK HAULING	1.20	1.25	1.28
MARKETING	.27	.28	.29
RAM DEATH LOSS	.28	.27	.27
SHEARING AND TAGGING	1.21	1.23	1.24
FUEL, LUBE, AND ELECTRICITY	1.82	1.49	1.49
MACHINERY AND BUILDING REPAIRS	2.29	2.26	2.26
HIRED LABOR (1.422 hrs)	6.22	6.34	6.49
MISCELLANEOUS	1.04	1.08	1.12
TOTAL, VARIABLE EXPENSES	29.25	29.47	29.23
GENERAL FARM OVERHEAD	2.86	3.74	4.48
TAXES AND INSURANCE	1.82	1.70	1.69
INTEREST	9.10	5.99	6.89
TOTAL, FIXED EXPENSES	13.78	11.43	13.06
TOTAL, CASH EXPENSES	43.03	40.90	42.29
RECEIPTS LESS CASH EXPENSES	3.86	17.34	23.87
CAPITAL REPLACEMENT	6.95	7.38	7.51
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-3.09	9.96	16.36
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	29.25	29.47	29.23
GENERAL FARM OVERHEAD	2.86	3.74	4.48
TAXES AND INSURANCE	1.82	1.70	1.69
CAPITAL REPLACEMENT	6.95	7.38	7.51
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	1.68	1.65	1.65
RETURN TO OTHER NONLAND CAPITAL 3/	4.36	4.95	5.01
LAND 4/	10.68	10.58	10.31
UNPAID LABOR (1.774 hrs)	7.33	7.70	7.49
TOTAL, ECONOMIC COSTS	64.93	67.17	67.37
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-18.04	-8.93	-1.21
TOTAL, RETURNS TO OWNED INPUTS 6/	6.01	15.95	23.25

1/ QUANTITIES PER EWE, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 108--U.S. MILK PRODUCTION COSTS, PER COW, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (144.96 cwt) 1/	1,902.86	1,866.69	1,835.00
CULL COWS, CALVES, AND REPLACEMENTS	152.33	147.08	140.88
TOTAL	2,055.19	2,013.77	1,975.88
CASH EXPENSES:			
FEED--			
SILAGE	46.62	49.47	44.67
CONCENTRATES	483.86	484.25	476.69
HAY	124.05	120.03	115.45
PASTURE AND OTHER FORAGES	5.37	5.61	5.23
HAYLAGE	31.45	29.95	28.21
OTHER--			
MILK HAULING	48.31	47.80	49.10
ARTIFICIAL INSEMINATION	16.52	17.10	17.65
VETERINARY AND MEDICINE	29.27	30.16	30.73
LIVESTOCK HAULING	2.72	2.66	2.66
MARKETING	14.96	15.36	15.96
FUEL, LUBE, AND ELECTRICITY	52.27	46.25	46.49
MACHINERY AND BUILDING REPAIRS	52.97	51.51	51.60
HIRED LABOR	120.18	127.46	130.98
DHIA FEES	7.31	7.55	7.79
DAIRY SUPPLIES	26.60	26.99	26.26
DAIRY ASSESSMENT	67.66	69.77	18.85
TOTAL, VARIABLE EXPENSES	1,130.12	1,131.92	1,068.32
GENERAL FARM OVERHEAD	70.39	83.09	81.46
TAXES AND INSURANCE	47.04	43.63	41.28
INTEREST	217.64	226.75	222.48
TOTAL, FIXED EXPENSES	335.07	353.47	345.22
TOTAL, CASH EXPENSES	1,465.19	1,485.39	1,413.54
RECEIPTS LESS CASH EXPENSES	590.00	528.38	562.34
CAPITAL REPLACEMENT	219.70	215.38	207.32
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	370.30	313.00	355.02
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	1,130.12	1,131.92	1,068.32
GENERAL FARM OVERHEAD	70.39	83.09	81.46
TAXES AND INSURANCE	47.04	43.63	41.28
CAPITAL REPLACEMENT	219.70	215.38	207.32
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	16.62	16.38	15.66
RETURN TO OTHER NONLAND CAPITAL 3/	138.85	129.73	124.47
LAND 4/	51.27	50.03	46.65
UNPAID LABOR	205.66	216.83	222.14
TOTAL, ECONOMIC COSTS	1,879.65	1,886.99	1,807.30
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	175.54	126.78	168.58
TOTAL, RETURNS TO OWNED INPUTS 6/	587.94	539.75	577.50

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 109--U.S. MILK PRODUCTION COSTS, PER CWT, ALL SIZES, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	13.50	13.38	12.66
CULL COWS, CALVES, AND REPLACEMENTS	1.09	1.07	.98
TOTAL	14.59	14.45	13.64
CASH EXPENSES:			
FEED--			
SILAGE	.33	.36	.31
CONCENTRATES	3.43	3.47	3.29
HAY	.85	.82	.76
PASTURE AND OTHER FORAGES	.04	.04	.04
HAYLAGE	.23	.22	.20
OTHER--			
MILK HAULING	.34	.34	.34
ARTIFICIAL INSEMINATION	.12	.12	.12
VETERINARY AND MEDICINE	.21	.22	.21
LIVESTOCK HAULING	.02	.02	.02
MARKETING	.10	.11	.11
FUEL, LUBE, AND ELECTRICITY	.37	.33	.32
MACHINERY AND BUILDING REPAIRS	.37	.37	.36
HIRED LABOR	.85	.91	.90
DHIA FEES	.05	.05	.05
DAIRY SUPPLIES	.19	.19	.18
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	7.98	8.07	7.34
GENERAL FARM OVERHEAD	.50	.60	.57
TAXES AND INSURANCE	.36	.34	.29
INTEREST	1.55	1.63	1.54
TOTAL, FIXED EXPENSES	2.41	2.57	2.40
TOTAL, CASH EXPENSES	10.39	10.64	9.74
RECEIPTS LESS CASH EXPENSES	4.20	3.81	3.90
CAPITAL REPLACEMENT	1.58	1.56	1.46
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.62	2.25	2.44
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	7.98	8.07	7.34
GENERAL FARM OVERHEAD	.50	.60	.57
TAXES AND INSURANCE	.36	.34	.29
CAPITAL REPLACEMENT	1.58	1.56	1.46
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.12	.12	.11
RETURN TO OTHER NONLAND CAPITAL 3/	.98	.93	.87
LAND 4/	.37	.37	.33
UNPAID LABOR	1.49	1.58	1.57
TOTAL, ECONOMIC COSTS	13.38	13.57	12.54
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	1.21	.88	1.10
TOTAL, RETURNS TO OWNED INPUTS 6/	4.17	3.88	3.98

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 110--MILK PRODUCTION COSTS, PER COW, ALL SIZES, APPALACHIA, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (139.93 cwt) 1/	1,905.29	1,850.74	1,893.81
CULL COWS, CALVES, AND REPLACEMENTS	127.29	121.49	120.04
TOTAL	2,032.58	1,972.23	2,013.85
CASH EXPENSES:			
FEED--			
SILAGE	71.30	83.87	71.87
CONCENTRATES	598.14	584.11	559.55
HAY	100.50	89.24	80.37
PASTURE AND OTHER FORAGES	19.47	20.14	18.83
HAYLAGE	21.10	18.72	16.41
OTHER--			
MILK HAULING	65.24	62.64	67.70
ARTIFICIAL INSEMINATION	16.58	17.10	17.65
VETERINARY AND MEDICINE	23.74	24.44	24.87
LIVESTOCK HAULING	1.56	1.52	1.51
MARKETING	18.23	18.44	19.54
FUEL, LUBE, AND ELECTRICITY	51.87	43.99	44.42
MACHINERY AND BUILDING REPAIRS	44.37	43.88	43.89
HIRED LABOR	155.39	158.77	159.87
DHIA FEES	7.63	7.84	8.10
DAIRY SUPPLIES	34.16	34.70	33.84
DAIRY ASSESSMENT	65.56	66.07	18.19
TOTAL, VARIABLE EXPENSES	1,295.04	1,275.47	1,186.61
GENERAL FARM OVERHEAD	53.62	77.37	79.15
TAXES AND INSURANCE	43.45	35.42	34.36
INTEREST	154.68	161.33	164.73
TOTAL, FIXED EXPENSES	253.75	274.12	278.24
TOTAL, CASH EXPENSES	1,548.79	1,549.59	1,464.85
RECEIPTS LESS CASH EXPENSES	483.79	422.64	549.00
CAPITAL REPLACEMENT	199.12	191.75	186.37
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	284.67	230.89	362.63
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	1,295.04	1,275.47	1,186.61
GENERAL FARM OVERHEAD	53.62	77.37	79.15
TAXES AND INSURANCE	43.45	35.42	34.36
CAPITAL REPLACEMENT	199.12	191.75	186.37
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	19.23	17.46	16.36
RETURN TO OTHER NONLAND CAPITAL 3/	129.74	118.44	115.66
LAND 4/	68.83	62.14	55.82
UNPAID LABOR	162.19	164.74	163.73
TOTAL, ECONOMIC COSTS	1,973.22	1,942.79	1,838.06
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	59.36	29.44	175.79
TOTAL, RETURNS TO OWNED INPUTS 6/	439.35	392.22	527.36

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 111--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, APPALACHIA, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	13.94	13.98	13.51
CULL COWS, CALVES, AND REPLACEMENTS	.94	.92	.86
TOTAL	14.88	14.90	14.37
CASH EXPENSES:			
FEED--			
SILAGE	.52	.63	.51
CONCENTRATES	4.39	4.44	4.02
HAY	.74	.68	.58
PASTURE AND OTHER FORAGES	.14	.15	.13
HAYLAGE	.16	.14	.12
OTHER--			
MILK HAULING	.48	.47	.48
ARTIFICIAL INSEMINATION	.12	.13	.12
VETERINARY AND MEDICINE	.17	.18	.18
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.13	.14	.14
FUEL, LUBE, AND ELECTRICITY	.37	.33	.32
MACHINERY AND BUILDING REPAIRS	.32	.33	.31
HIRED LABOR	1.13	1.20	1.13
DHIA FEES	.06	.06	.06
DAIRY SUPPLIES	.25	.26	.24
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	9.47	9.65	8.48
GENERAL FARM OVERHEAD	.41	.58	.56
TAXES AND INSURANCE	.32	.26	.25
INTEREST	1.13	1.22	1.18
TOTAL, FIXED EXPENSES	1.86	2.06	1.99
TOTAL, CASH EXPENSES	11.33	11.71	10.47
RECEIPTS LESS CASH EXPENSES	3.55	3.19	3.90
CAPITAL REPLACEMENT	1.46	1.45	1.33
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.09	1.74	2.57
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	9.47	9.65	8.48
GENERAL FARM OVERHEAD	.41	.58	.56
TAXES AND INSURANCE	.32	.26	.25
CAPITAL REPLACEMENT	1.46	1.45	1.33
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.14	.13	.12
RETURN TO OTHER NONLAND CAPITAL 3/	.96	.90	.82
LAND 4/	.50	.47	.40
UNPAID LABOR	1.19	1.26	1.18
TOTAL, ECONOMIC COSTS	14.45	14.70	13.14
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	.43	.20	1.23
TOTAL, RETURNS TO OWNED INPUTS 6/	3.22	2.96	3.75

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 112--MILK PRODUCTION COSTS, PER COW, ALL SIZES, CORN BELT, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (138.01 cwt) 1/	1,791.97	1,775.04	1,724.96
CULL COWS, CALVES, AND REPLACEMENTS	138.90	132.46	131.35
TOTAL	1,930.87	1,907.50	1,856.31
CASH EXPENSES:			
FEED--			
SILAGE	34.63	37.90	32.55
CONCENTRATES	513.77	507.31	502.45
HAY	85.69	76.80	68.69
PASTURE AND OTHER FORAGES	7.73	7.93	7.29
HAYLAGE	37.74	31.92	28.34
OTHER--			
MILK HAULING	63.01	62.74	66.23
ARTIFICIAL INSEMINATION	17.24	17.82	18.42
VETERINARY AND MEDICINE	28.70	29.75	30.31
LIVESTOCK HAULING	1.76	1.73	1.73
MARKETING	13.60	14.15	14.64
FUEL, LUBE, AND ELECTRICITY	65.96	56.91	57.18
MACHINERY AND BUILDING REPAIRS	59.03	57.64	57.65
HIRED LABOR	87.08	91.03	94.73
DHIA FEES	7.62	7.91	8.14
DAIRY SUPPLIES	26.69	27.25	26.53
DAIRY ASSESSMENT	64.35	66.72	17.94
TOTAL, VARIABLE EXPENSES	1,114.60	1,095.51	1,032.82
GENERAL FARM OVERHEAD	60.15	78.17	75.94
TAXES AND INSURANCE	56.39	52.73	49.51
INTEREST	227.65	242.44	235.94
TOTAL, FIXED EXPENSES	344.19	373.34	361.39
TOTAL, CASH EXPENSES	1,458.79	1,468.85	1,394.21
RECEIPTS LESS CASH EXPENSES	472.08	438.65	462.10
CAPITAL REPLACEMENT	250.19	241.63	236.40
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	221.89	197.02	225.70
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	1,114.60	1,095.51	1,032.82
GENERAL FARM OVERHEAD	60.15	78.17	75.94
TAXES AND INSURANCE	56.39	52.73	49.51
CAPITAL REPLACEMENT	250.19	241.63	236.40
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	17.06	16.61	15.98
RETURN TO OTHER NONLAND CAPITAL 3/	152.26	140.03	136.73
LAND 4/	92.98	75.34	65.21
UNPAID LABOR	265.71	272.65	284.52
TOTAL, ECONOMIC COSTS	2,009.34	1,972.67	1,897.11
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-78.47	-65.17	-40.80
TOTAL, RETURNS TO OWNED INPUTS 6/	449.54	439.46	461.64

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 113--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, CORN BELT, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	13.37	13.29	12.49
CULL COWS, CALVES, AND REPLACEMENTS	1.04	1.00	.95
TOTAL	14.41	14.29	13.44
CASH EXPENSES:			
FEED--			
SILAGE	.26	.28	.23
CONCENTRATES	3.84	3.80	3.63
HAY	.64	.58	.50
PASTURE AND OTHER FORAGES	.06	.06	.05
HAYLAGE	.28	.24	.20
OTHER--			
MILK HAULING	.47	.47	.48
ARTIFICIAL INSEMINATION	.13	.13	.13
VETERINARY AND MEDICINE	.21	.22	.22
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.10	.11	.11
FUEL, LUBE, AND ELECTRICITY	.49	.43	.41
MACHINERY AND BUILDING REPAIRS	.44	.43	.42
HIRED LABOR	.66	.69	.69
DHIA FEES	.06	.06	.06
DAIRY SUPPLIES	.20	.21	.19
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	8.33	8.22	7.46
GENERAL FARM OVERHEAD	.45	.59	.55
TAXES AND INSURANCE	.40	.38	.35
INTEREST	1.70	1.82	1.71
TOTAL, FIXED EXPENSES	2.55	2.79	2.61
TOTAL, CASH EXPENSES	10.88	11.01	10.07
RECEIPTS LESS CASH EXPENSES	3.53	3.28	3.37
CAPITAL REPLACEMENT	1.86	1.81	1.70
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	1.67	1.47	1.67
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	8.33	8.22	7.46
GENERAL FARM OVERHEAD	.45	.59	.55
TAXES AND INSURANCE	.40	.38	.35
CAPITAL REPLACEMENT	1.86	1.81	1.70
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.13	.12	.12
RETURN TO OTHER NONLAND CAPITAL 3/	1.14	1.06	.99
LAND 4/	.69	.56	.47
UNPAID LABOR	1.98	2.04	2.06
TOTAL, ECONOMIC COSTS	14.98	14.78	13.70
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	-.57	-.49	-.26
TOTAL, RETURNS TO OWNED INPUTS 6/	3.37	3.29	3.38

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 114--MILK PRODUCTION COSTS, PER COW, ALL SIZES, NORTHEAST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (146.20 cwt) 1/	1,998.89	1,948.74	1,898.70
CULL COWS, CALVES, AND REPLACEMENTS	147.53	143.19	136.14
TOTAL	2,146.42	2,091.93	2,034.84
CASH EXPENSES:			
FEED--			
SILAGE	59.84	59.14	55.26
CONCENTRATES	499.41	501.24	498.18
HAY	74.13	71.42	63.01
PASTURE AND OTHER FORAGES	3.92	4.07	3.94
HAYLAGE	32.07	31.24	28.16
OTHER--			
MILK HAULING	53.75	53.73	55.47
ARTIFICIAL INSEMINATION	18.41	19.24	19.87
VETERINARY AND MEDICINE	34.13	35.17	35.84
LIVESTOCK HAULING	2.31	2.25	2.25
MARKETING	16.14	16.31	16.78
FUEL, LUBE, AND ELECTRICITY	55.44	49.91	50.05
MACHINERY AND BUILDING REPAIRS	51.00	49.50	49.49
HIRED LABOR	150.50	161.19	167.20
DHIA FEES	7.67	7.90	8.15
DAIRY SUPPLIES	25.95	26.34	25.63
DAIRY ASSESSMENT	69.11	70.93	19.01
TOTAL, VARIABLE EXPENSES	1,153.78	1,159.58	1,098.29
GENERAL FARM OVERHEAD	73.47	88.81	86.53
TAXES AND INSURANCE	46.86	47.24	44.70
INTEREST	157.33	159.41	155.05
TOTAL, FIXED EXPENSES	277.66	295.46	286.28
TOTAL, CASH EXPENSES	1,431.44	1,455.04	1,384.57
RECEIPTS LESS CASH EXPENSES	714.98	636.89	650.27
CAPITAL REPLACEMENT	229.87	227.38	217.26
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	485.11	409.51	433.01
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	1,153.78	1,159.58	1,098.29
GENERAL FARM OVERHEAD	73.47	88.81	86.53
TAXES AND INSURANCE	46.86	47.24	44.70
CAPITAL REPLACEMENT	229.87	227.38	217.26
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	17.07	16.97	16.33
RETURN TO OTHER NONLAND CAPITAL 3/	146.11	137.33	131.53
LAND 4/	39.82	40.43	37.41
UNPAID LABOR	226.45	239.77	248.68
TOTAL, ECONOMIC COSTS	1,933.43	1,957.51	1,880.73
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	212.99	134.42	154.11
TOTAL, RETURNS TO OWNED INPUTS 6/	642.44	568.92	588.06

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 115--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, NORTHEAST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	13.88	13.74	12.98
CULL COWS, CALVES, AND REPLACEMENTS	1.03	1.01	.93
TOTAL	14.91	14.75	13.91
CASH EXPENSES:			
FEED--			
SILAGE	.41	.42	.38
CONCENTRATES	3.47	3.53	3.41
HAY	.52	.50	.43
PASTURE AND OTHER FORAGES	.03	.03	.03
HAYLAGE	.22	.22	.19
OTHER--			
MILK HAULING	.37	.38	.38
ARTIFICIAL INSEMINATION	.13	.14	.14
VETERINARY AND MEDICINE	.24	.25	.25
LIVESTOCK HAULING	.02	.02	.02
MARKETING	.11	.12	.12
FUEL, LUBE, AND ELECTRICITY	.39	.35	.34
MACHINERY AND BUILDING REPAIRS	.35	.35	.34
HIRED LABOR	1.04	1.13	1.15
DHIA FEES	.05	.06	.06
DAIRY SUPPLIES	.18	.19	.18
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	8.01	8.19	7.55
GENERAL FARM OVERHEAD	.51	.63	.59
TAXES AND INSURANCE	.34	.33	.31
INTEREST	1.09	1.12	1.06
TOTAL, FIXED EXPENSES	1.94	2.08	1.96
TOTAL, CASH EXPENSES	9.95	10.27	9.51
RECEIPTS LESS CASH EXPENSES	4.96	4.48	4.40
CAPITAL REPLACEMENT	1.60	1.60	1.49
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.36	2.88	2.91
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	8.01	8.19	7.55
GENERAL FARM OVERHEAD	.51	.63	.59
TAXES AND INSURANCE	.34	.33	.31
CAPITAL REPLACEMENT	1.60	1.60	1.49
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.12	.12	.11
RETURN TO OTHER NONLAND CAPITAL 3/	1.02	.97	.90
LAND 4/	.28	.29	.26
UNPAID LABOR	1.58	1.69	1.70
TOTAL, ECONOMIC COSTS	13.46	13.82	12.91
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	1.45	.93	1.00
TOTAL, RETURNS TO OWNED INPUTS 6/	4.45	4.00	3.97

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 116--MILK PRODUCTION COSTS, PER COW, ALL SIZES, PACIFIC, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (172.54 cwt) 1/	2,114.54	2,120.16	2,127.59
CULL COWS, CALVES, AND REPLACEMENTS	136.67	135.51	128.70
TOTAL	2,251.21	2,255.67	2,256.29
CASH EXPENSES:			
FEED--			
SILAGE	25.82	26.38	24.98
CONCENTRATES	561.42	568.60	530.15
HAY	391.19	359.60	372.07
PASTURE AND OTHER FORAGES	4.69	4.82	4.47
HAYLAGE	19.58	18.85	18.82
OTHER--			
MILK HAULING	48.26	48.97	51.34
ARTIFICIAL INSEMINATION	18.08	18.57	19.18
VETERINARY AND MEDICINE	23.20	23.81	24.27
LIVESTOCK HAULING	2.15	2.09	2.08
MARKETING	25.85	27.72	29.11
FUEL, LUBE, AND ELECTRICITY	33.84	29.63	30.13
MACHINERY AND BUILDING REPAIRS	66.92	64.32	64.34
HIRED LABOR	155.92	167.14	171.94
DHIA FEES	8.93	9.19	9.49
DAIRY SUPPLIES	28.61	28.99	28.26
DAIRY ASSESSMENT	77.44	82.19	22.43
TOTAL, VARIABLE EXPENSES	1,491.90	1,480.87	1,403.06
GENERAL FARM OVERHEAD	48.18	61.83	62.04
TAXES AND INSURANCE	25.32	24.17	23.60
INTEREST	188.20	166.92	166.97
TOTAL, FIXED EXPENSES	261.70	252.92	252.61
TOTAL, CASH EXPENSES	1,753.60	1,733.79	1,655.67
RECEIPTS LESS CASH EXPENSES	497.61	521.88	600.62
CAPITAL REPLACEMENT	127.57	124.73	121.63
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	370.04	397.15	478.99
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	1,491.90	1,480.87	1,403.06
GENERAL FARM OVERHEAD	48.18	61.83	62.04
TAXES AND INSURANCE	25.32	24.17	23.60
CAPITAL REPLACEMENT	127.57	124.73	121.63
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	19.25	18.98	18.04
RETURN TO OTHER NONLAND CAPITAL 3/	101.31	94.69	91.61
LAND 4/	11.45	8.10	8.92
UNPAID LABOR	64.59	68.39	69.38
TOTAL, ECONOMIC COSTS	1,889.57	1,881.76	1,798.28
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	361.64	373.91	458.01
TOTAL, RETURNS TO OWNED INPUTS 6/	558.24	564.07	645.96

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 117--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, PACIFIC, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	13.10	12.89	12.33
CULL COWS, CALVES, AND REPLACEMENTS	.85	.82	.75
TOTAL	13.95	13.71	13.08
CASH EXPENSES:			
FEED--			
SILAGE	.16	.16	.14
CONCENTRATES	3.48	3.46	3.07
HAY	2.43	2.19	2.16
PASTURE AND OTHER FORAGES	.03	.03	.03
HAYLAGE	.12	.11	.11
OTHER--			
MILK HAULING	.30	.30	.30
ARTIFICIAL INSEMINATION	.11	.11	.11
VETERINARY AND MEDICINE	.14	.14	.14
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.16	.17	.17
FUEL, LUBE, AND ELECTRICITY	.21	.18	.17
MACHINERY AND BUILDING REPAIRS	.41	.39	.37
HIRED LABOR	.96	1.02	1.00
DHIA FEES	.06	.06	.06
DAIRY SUPPLIES	.18	.18	.16
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	9.24	9.01	8.13
GENERAL FARM OVERHEAD	.30	.38	.36
TAXES AND INSURANCE	.16	.14	.13
INTEREST	1.17	1.01	.97
TOTAL, FIXED EXPENSES	1.63	1.53	1.46
TOTAL, CASH EXPENSES	10.87	10.54	9.59
RECEIPTS LESS CASH EXPENSES	3.08	3.17	3.49
CAPITAL REPLACEMENT	.79	.76	.70
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.29	2.41	2.79
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	9.24	9.01	8.13
GENERAL FARM OVERHEAD	.30	.38	.36
TAXES AND INSURANCE	.16	.14	.13
CAPITAL REPLACEMENT	.79	.76	.70
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.12	.12	.10
RETURN TO OTHER NONLAND CAPITAL 3/	.62	.57	.54
LAND 4/	.07	.05	.05
UNPAID LABOR	.39	.41	.40
TOTAL, ECONOMIC COSTS	11.69	11.44	10.41
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	2.26	2.27	2.67
TOTAL, RETURNS TO OWNED INPUTS 6/	3.46	3.42	3.76

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 118--MILK PRODUCTION COSTS, PER COW, ALL SIZES, SOUTHERN PLAINS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (143.63 cwt) 1/	1,998.11	1,985.58	1,979.26
CULL COWS, CALVES, AND REPLACEMENTS	124.30	116.07	121.36
TOTAL	2,122.41	2,101.65	2,100.62
CASH EXPENSES:			
FEED--			
SILAGE	8.11	9.79	7.61
CONCENTRATES	600.00	632.09	611.57
HAY	259.19	331.82	242.80
PASTURE AND OTHER FORAGES	4.91	5.01	5.00
HAYLAGE	13.30	18.18	12.99
OTHER--			
MILK HAULING	56.50	58.32	60.33
ARTIFICIAL INSEMINATION	11.17	11.50	11.88
VETERINARY AND MEDICINE	19.14	19.71	20.07
LIVESTOCK HAULING	.95	.92	.92
MARKETING	26.18	27.77	28.73
FUEL, LUBE, AND ELECTRICITY	38.02	34.57	34.94
MACHINERY AND BUILDING REPAIRS	25.19	24.30	24.32
HIRED LABOR	156.09	147.29	168.91
DHIA FEES	2.08	2.14	2.21
DAIRY SUPPLIES	40.98	41.65	40.58
DAIRY ASSESSMENT	66.14	69.43	18.67
TOTAL, VARIABLE EXPENSES	1,327.95	1,434.49	1,291.53
GENERAL FARM OVERHEAD	60.84	59.53	59.32
TAXES AND INSURANCE	35.78	32.79	30.48
INTEREST	149.21	183.26	183.17
TOTAL, FIXED EXPENSES	245.83	275.58	272.97
TOTAL, CASH EXPENSES	1,573.78	1,710.07	1,564.50
RECEIPTS LESS CASH EXPENSES	548.63	391.58	536.12
CAPITAL REPLACEMENT	160.46	159.01	149.23
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	388.17	232.57	386.89
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	1,327.95	1,434.49	1,291.53
GENERAL FARM OVERHEAD	60.84	59.53	59.32
TAXES AND INSURANCE	35.78	32.79	30.48
CAPITAL REPLACEMENT	160.46	159.01	149.23
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	17.44	18.69	17.11
RETURN TO OTHER NONLAND CAPITAL 3/	88.90	84.58	80.06
LAND 4/	28.83	35.00	26.49
UNPAID LABOR	101.97	98.95	110.63
TOTAL, ECONOMIC COSTS	1,822.17	1,923.04	1,764.85
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	300.24	178.61	335.77
TOTAL, RETURNS TO OWNED INPUTS 6/	537.38	415.83	570.06

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 119--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, SOUTHERN PLAINS, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	14.50	14.30	13.78
CULL COWS, CALVES, AND REPLACEMENTS	.90	.84	.84
TOTAL	15.40	15.14	14.62
CASH EXPENSES:			
FEED--			
SILAGE	.06	.07	.05
CONCENTRATES	4.35	4.55	4.26
HAY	1.88	2.39	1.69
PASTURE AND OTHER FORAGES	.04	.04	.04
HAYLAGE	.10	.13	.09
OTHER--			
MILK HAULING	.41	.42	.42
ARTIFICIAL INSEMINATION	.08	.08	.08
VETERINARY AND MEDICINE	.14	.14	.14
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.19	.20	.20
FUEL, LUBE, AND ELECTRICITY	.28	.24	.24
MACHINERY AND BUILDING REPAIRS	.18	.17	.17
HIRED LABOR	1.13	1.06	1.18
DHIA FEES	.02	.02	.02
DAIRY SUPPLIES	.30	.30	.28
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	9.65	10.32	9.00
GENERAL FARM OVERHEAD	.44	.43	.41
TAXES AND INSURANCE	.25	.22	.20
INTEREST	1.08	1.32	1.27
TOTAL, FIXED EXPENSES	1.77	1.97	1.88
TOTAL, CASH EXPENSES	11.42	12.29	10.88
RECEIPTS LESS CASH EXPENSES	3.98	2.85	3.74
CAPITAL REPLACEMENT	1.16	1.15	1.04
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.82	1.70	2.70
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	9.65	10.32	9.00
GENERAL FARM OVERHEAD	.44	.43	.41
TAXES AND INSURANCE	.25	.22	.20
CAPITAL REPLACEMENT	1.16	1.15	1.04
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.12	.13	.12
RETURN TO OTHER NONLAND CAPITAL 3/	.65	.62	.55
LAND 4/	.21	.25	.18
UNPAID LABOR	.74	.71	.77
TOTAL, ECONOMIC COSTS	13.22	13.83	12.27
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	2.18	1.31	2.35
TOTAL, RETURNS TO OWNED INPUTS 6/	3.90	3.02	3.97

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

TABLE 120--MILK PRODUCTION COSTS, PER COW, ALL SIZES, UPPER MIDWEST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (137.48 cwt) 1/	1,781.90	1,734.90	1,686.22
CULL COWS, CALVES, AND REPLACEMENTS	175.22	168.30	158.86
TOTAL	1,957.12	1,903.20	1,845.08
CASH EXPENSES:			
FEED--			
SILAGE	45.17	49.00	44.47
CONCENTRATES	393.14	393.64	399.67
HAY	71.85	70.12	70.72
PASTURE AND OTHER FORAGES	2.18	2.58	2.38
HAYLAGE	37.79	36.50	36.08
OTHER--			
MILK HAULING	34.26	33.55	32.62
ARTIFICIAL INSEMINATION	14.86	15.30	15.79
VETERINARY AND MEDICINE	30.49	31.40	31.99
LIVESTOCK HAULING	4.02	3.91	3.91
MARKETING	8.66	8.54	8.83
FUEL, LUBE, AND ELECTRICITY	53.61	48.06	48.26
MACHINERY AND BUILDING REPAIRS	52.72	51.17	51.18
HIRED LABOR	82.44	89.08	89.66
DHIA FEES	6.83	7.04	7.26
DAIRY SUPPLIES	22.86	23.22	22.61
DAIRY ASSESSMENT	64.91	66.37	17.87
TOTAL, VARIABLE EXPENSES	925.79	929.48	883.30
GENERAL FARM OVERHEAD	84.09	91.81	89.26
TAXES AND INSURANCE	52.79	54.08	52.02
INTEREST	262.65	279.77	271.23
TOTAL, FIXED EXPENSES	399.53	425.66	412.51
TOTAL, CASH EXPENSES	1,325.32	1,355.14	1,295.81
RECEIPTS LESS CASH EXPENSES	631.80	548.06	549.27
CAPITAL REPLACEMENT	247.17	242.98	233.49
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	384.63	305.08	315.78
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	925.79	929.48	883.30
GENERAL FARM OVERHEAD	84.09	91.81	89.26
TAXES AND INSURANCE	52.79	54.08	52.02
CAPITAL REPLACEMENT	247.17	242.98	233.49
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	14.44	14.43	13.89
RETURN TO OTHER NONLAND CAPITAL 3/	149.24	140.96	134.06
LAND 4/	59.30	57.24	54.66
UNPAID LABOR	243.05	261.62	265.20
TOTAL, ECONOMIC COSTS	1,775.87	1,792.60	1,725.88
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	181.25	110.60	119.20
TOTAL, RETURNS TO OWNED INPUTS 6/	647.28	584.85	587.01

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.

*U.S. Government Printing Office : 1986 -490-918/40

TABLE 121--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, UPPER MIDWEST, 1983-85

ITEM	1983	1984	1985
		DOLLARS	
CASH RECEIPTS:			
MILK (100 lbs) 1/	13.18	13.07	12.26
CULL COWS, CALVES, AND REPLACEMENTS	1.30	1.28	1.16
TOTAL	14.48	14.35	13.42
CASH EXPENSES:			
FEED--			
SILAGE	.33	.37	.32
CONCENTRATES	2.90	2.96	2.91
HAY	.53	.53	.52
PASTURE AND OTHER FORAGES	.02	.02	.02
HAYLAGE	.29	.28	.27
OTHER--			
MILK HAULING	.25	.25	.23
ARTIFICIAL INSEMINATION	.11	.12	.11
VETERINARY AND MEDICINE	.23	.24	.23
LIVESTOCK HAULING	.03	.03	.03
MARKETING	.06	.06	.06
FUEL, LUBE, AND ELECTRICITY	.40	.36	.35
MACHINERY AND BUILDING REPAIRS	.39	.38	.37
HIRED LABOR	.61	.67	.65
DHIA FEES	.05	.05	.05
DAIRY SUPPLIES	.17	.18	.16
DAIRY ASSESSMENT	.48	.50	.13
TOTAL, VARIABLE EXPENSES	6.85	7.00	6.41
GENERAL FARM OVERHEAD	.62	.69	.65
TAXES AND INSURANCE	.38	.42	.39
INTEREST	1.94	2.11	1.97
TOTAL, FIXED EXPENSES	2.94	3.22	3.01
TOTAL, CASH EXPENSES	9.79	10.22	9.42
RECEIPTS LESS CASH EXPENSES	4.69	4.13	4.00
CAPITAL REPLACEMENT	1.84	1.83	1.70
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.85	2.30	2.30
ECONOMIC (FULL OWNERSHIP) COSTS:			
VARIABLE EXPENSES	6.85	7.00	6.41
GENERAL FARM OVERHEAD	.62	.69	.65
TAXES AND INSURANCE	.38	.42	.39
CAPITAL REPLACEMENT	1.84	1.83	1.70
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL 2/	.11	.11	.10
RETURN TO OTHER NONLAND CAPITAL 3/	1.10	1.07	.97
LAND 4/	.44	.43	.40
UNPAID LABOR	1.79	1.96	1.92
TOTAL, ECONOMIC COSTS	13.13	13.51	12.54
RESIDUAL RETURNS TO MANAGEMENT AND RISK 5/	1.35	.84	.88
TOTAL, RETURNS TO OWNED INPUTS 6/	4.79	4.41	4.27

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS. 2/ VARIABLE EXPENSE ITEMS MULTIPLIED BY PART OF YEAR USED AND THE 6-MONTH U.S. TREASURY BILL RATE (SEE PG. 19). 3/ VALUE OF MACHINERY AND EQUIPMENT MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 4/ VALUE OF LAND MULTIPLIED BY LONGRUN REAL RATE OF RETURN TO PRODUCTION ASSETS IN FARM SECTOR (SEE PG. 19). 5/ CALCULATED BY SUBTRACTING TOTAL ECONOMIC (FULL OWNERSHIP) COSTS FROM TOTAL CASH RECEIPTS. 6/ SUM OF ALLOCATED AND RESIDUAL RETURNS.